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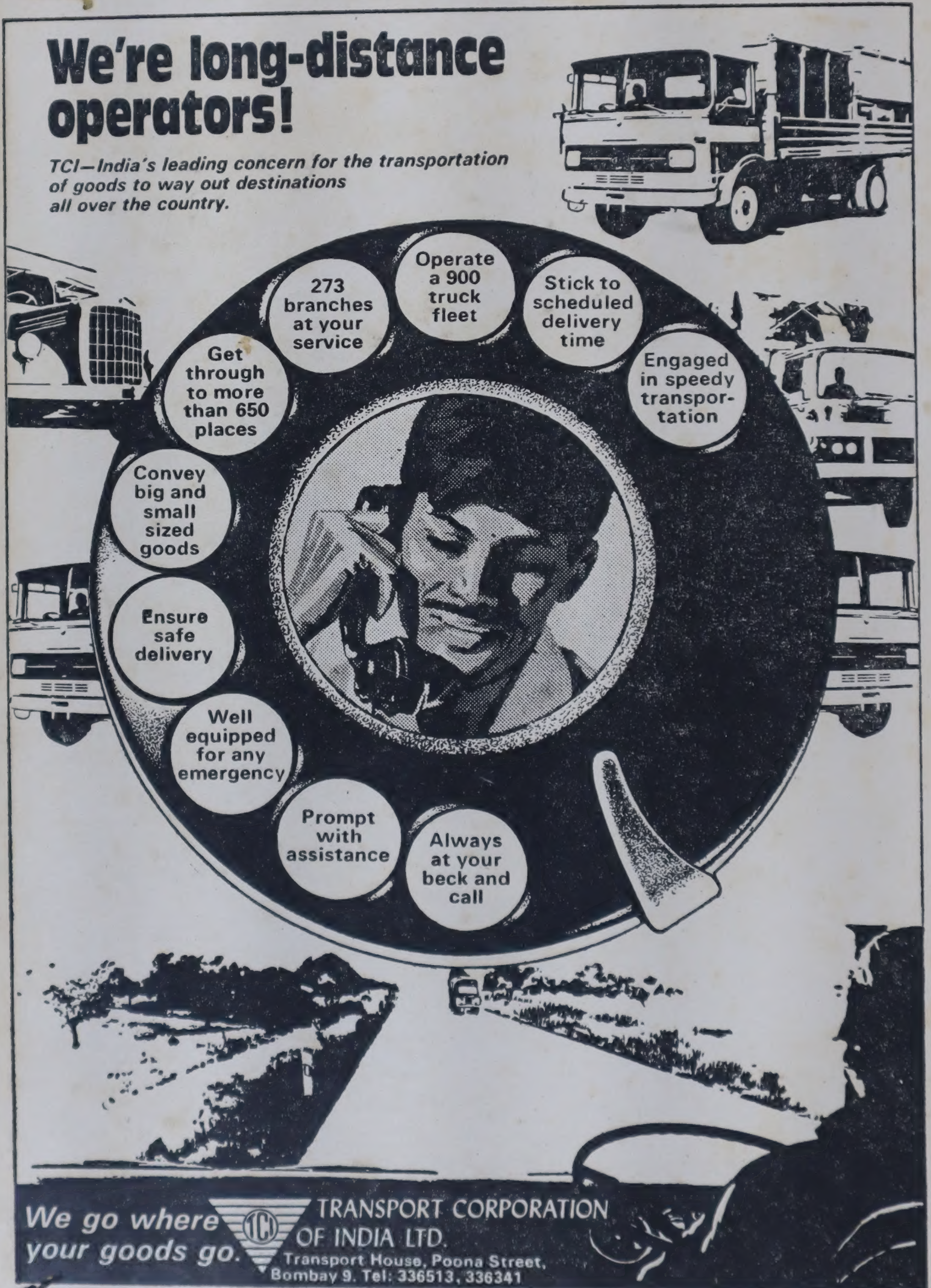

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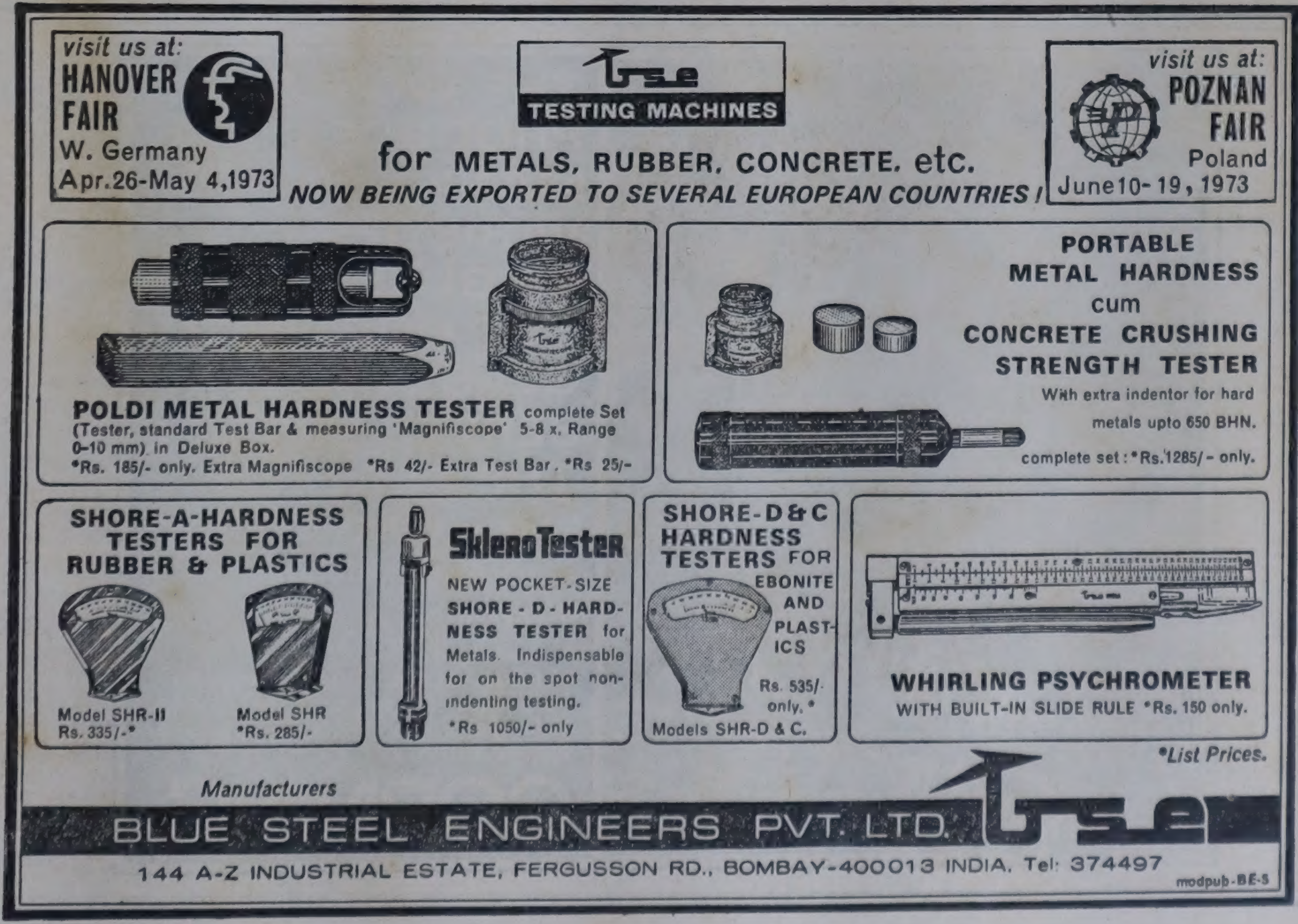

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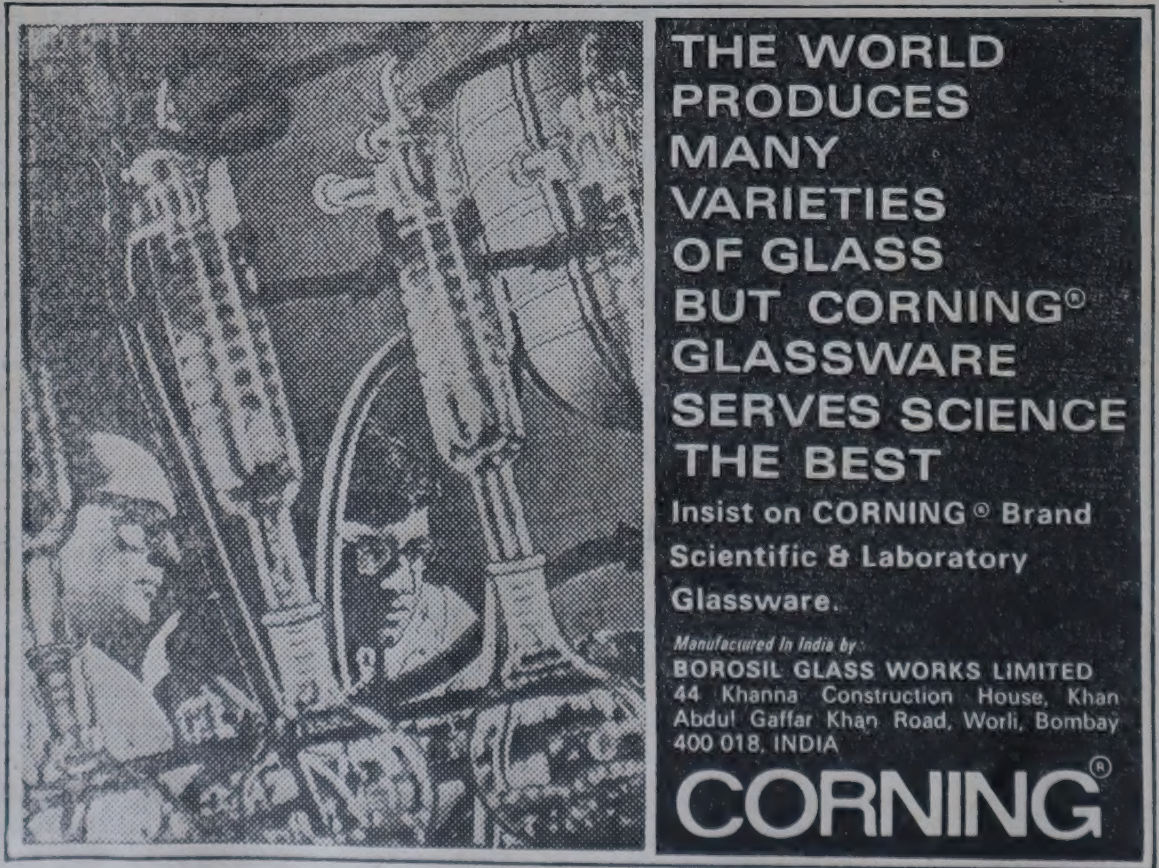

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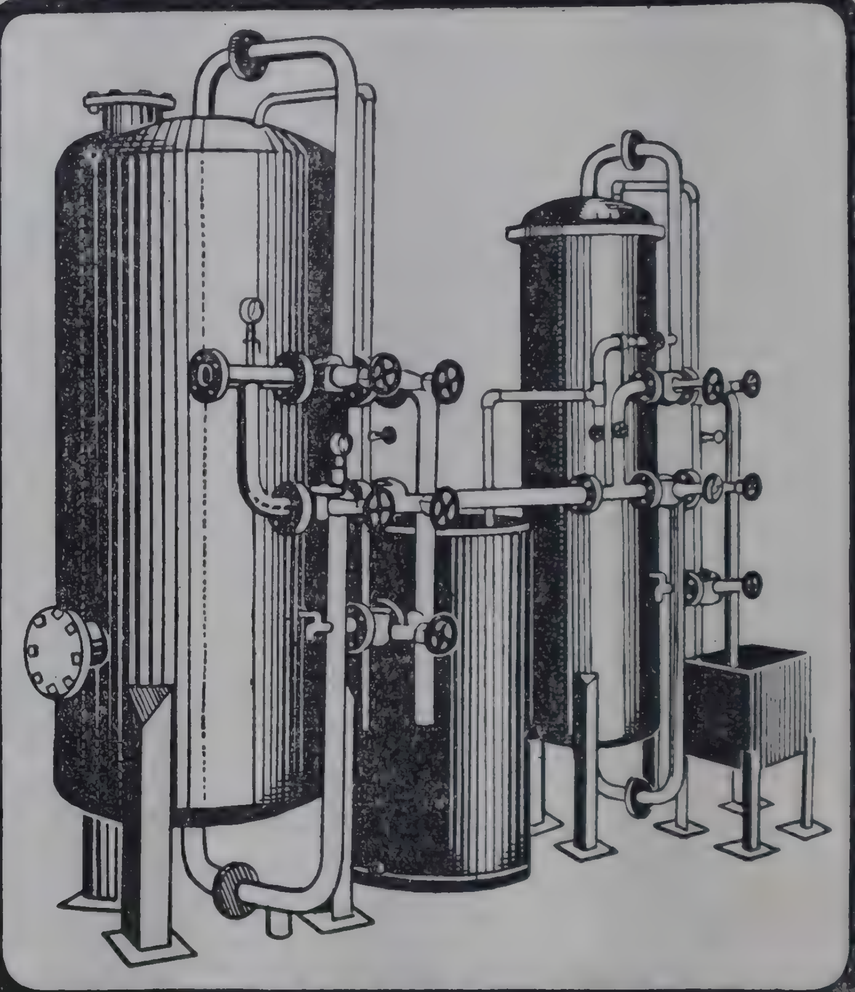

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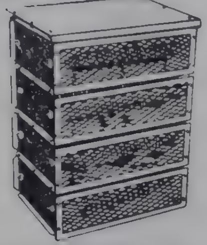
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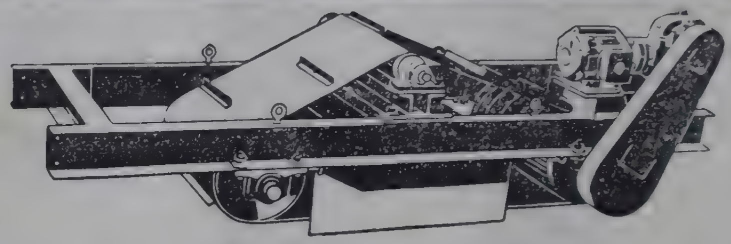
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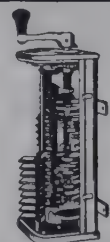
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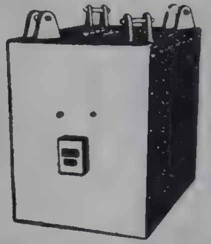
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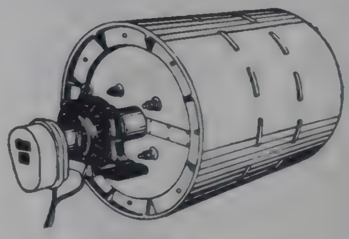
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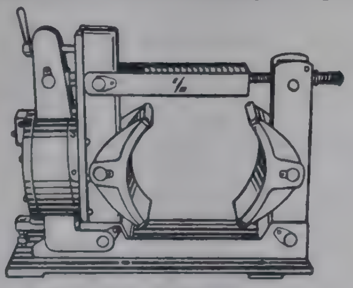
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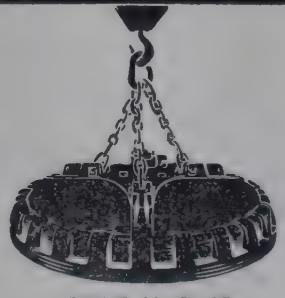
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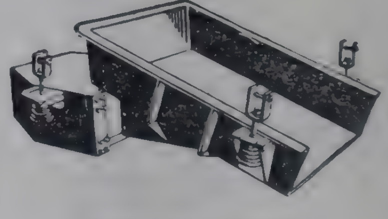
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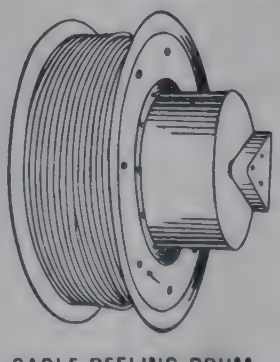
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Distributors for : Equipments for Wire, HF, VHF, UHF and Microwave Communications, Sound and Vision Broadcast ; Electronic Test and Measuring Instruments ; Pressurising Equipment for Waveguides and Telecom cables ; Vacuum Equipment ; Wavesoldering equipment ; Airfield Lighting equipment. Electronic Components comprising Strip Line and Microwave Devices, Giga-trim and Monobloc Capacitors ; IC Accessories and Piezoelectric Devices etc. Raw Materials including hard and soft Magnetic Alloys, Thermostatic Bimetals, Be-Cu strips/rods, Nickel-Iron laminations and cores etc.

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Shipping Division : *Agents for :* Various Shipping Companies, Crewing Agents, Passenger Agents, Clearing and Forwarding Agents.

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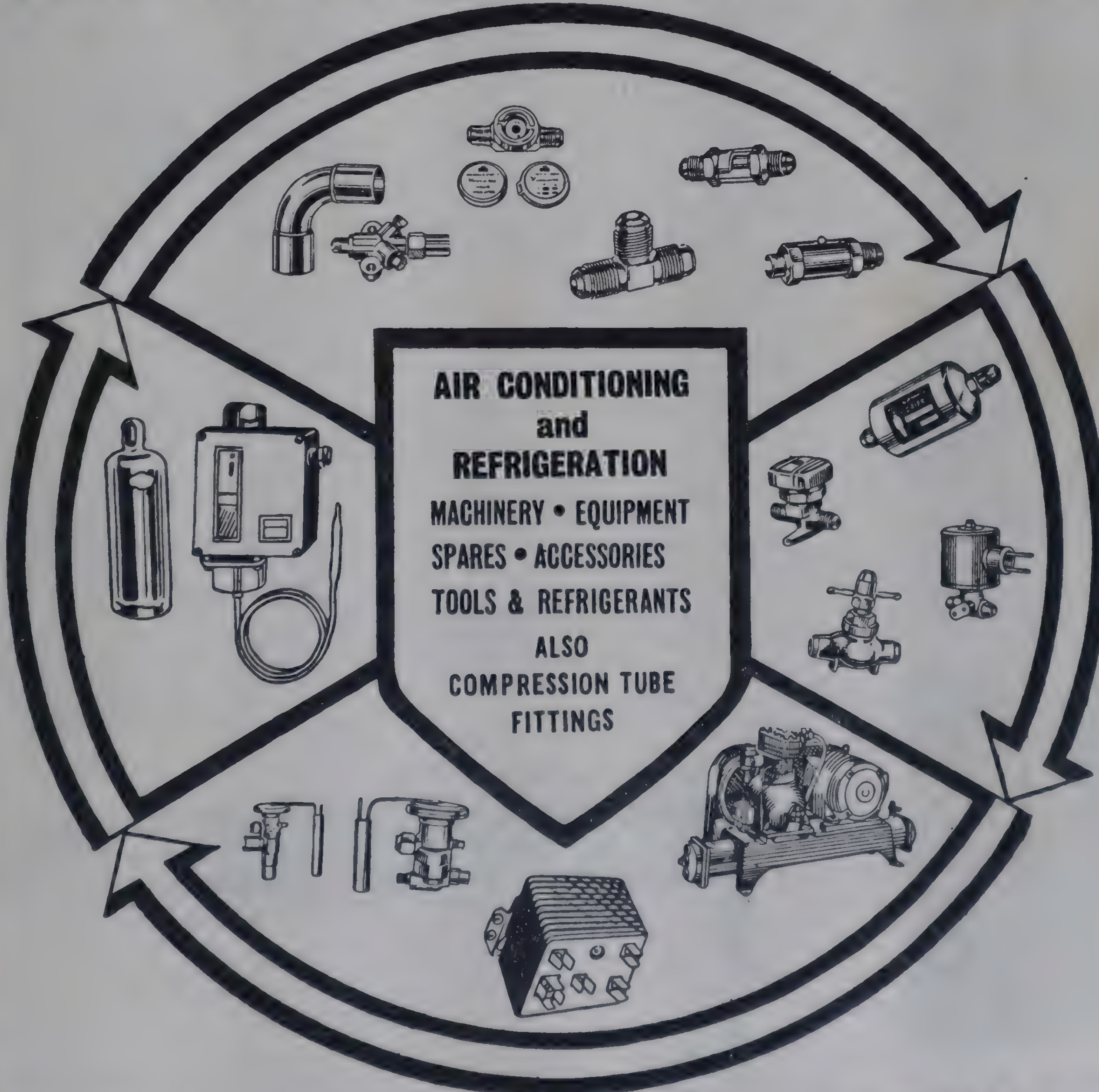

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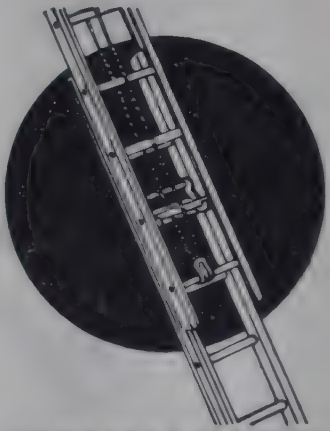

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Kanpur – Nagpur – Patna – Visakhapatnam

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P. Bhowmik, Export Sales Manager.
G. S. Das, Materials Manager.
Location Calcutta : U. K. Sood, Marketing Manager (Steelworks Division).

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Telephone: 79248.

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Telex: 041-478. Telegraphic Address: "HEASHAM".

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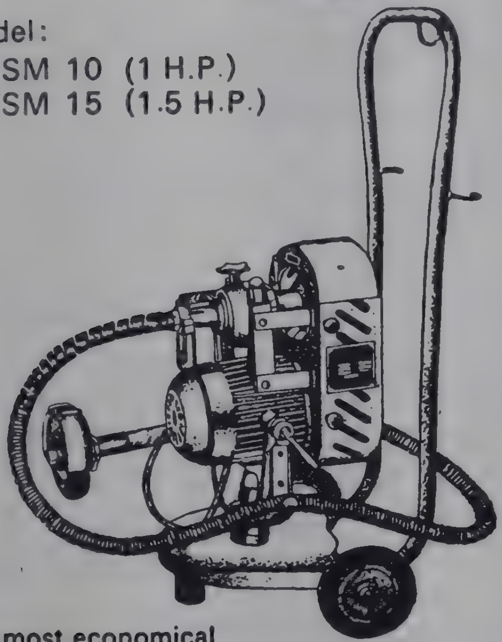

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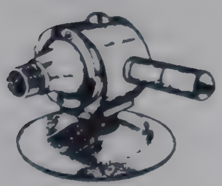
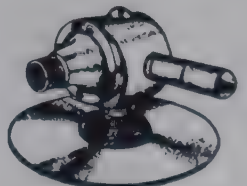
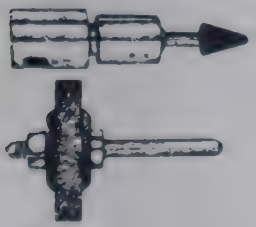


Sanding Attachment



Angle grinding attachment



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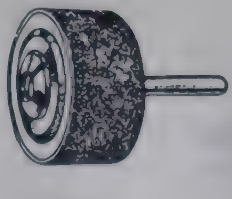

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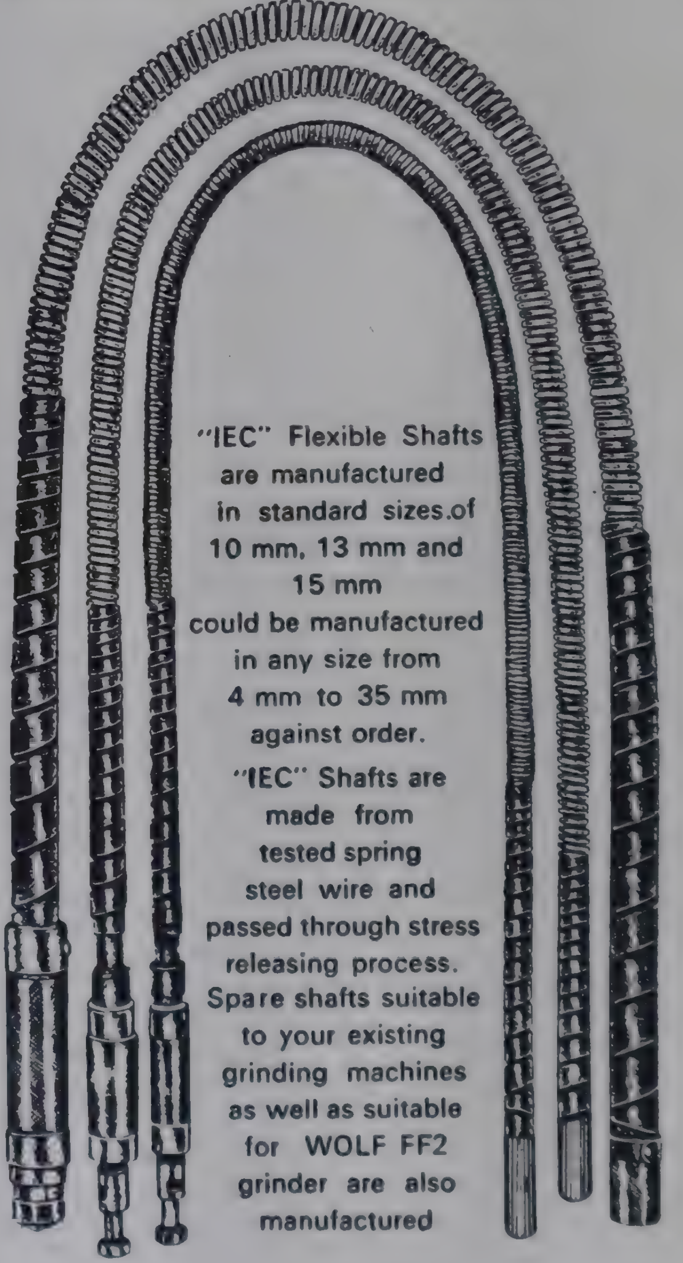

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Branch Office :
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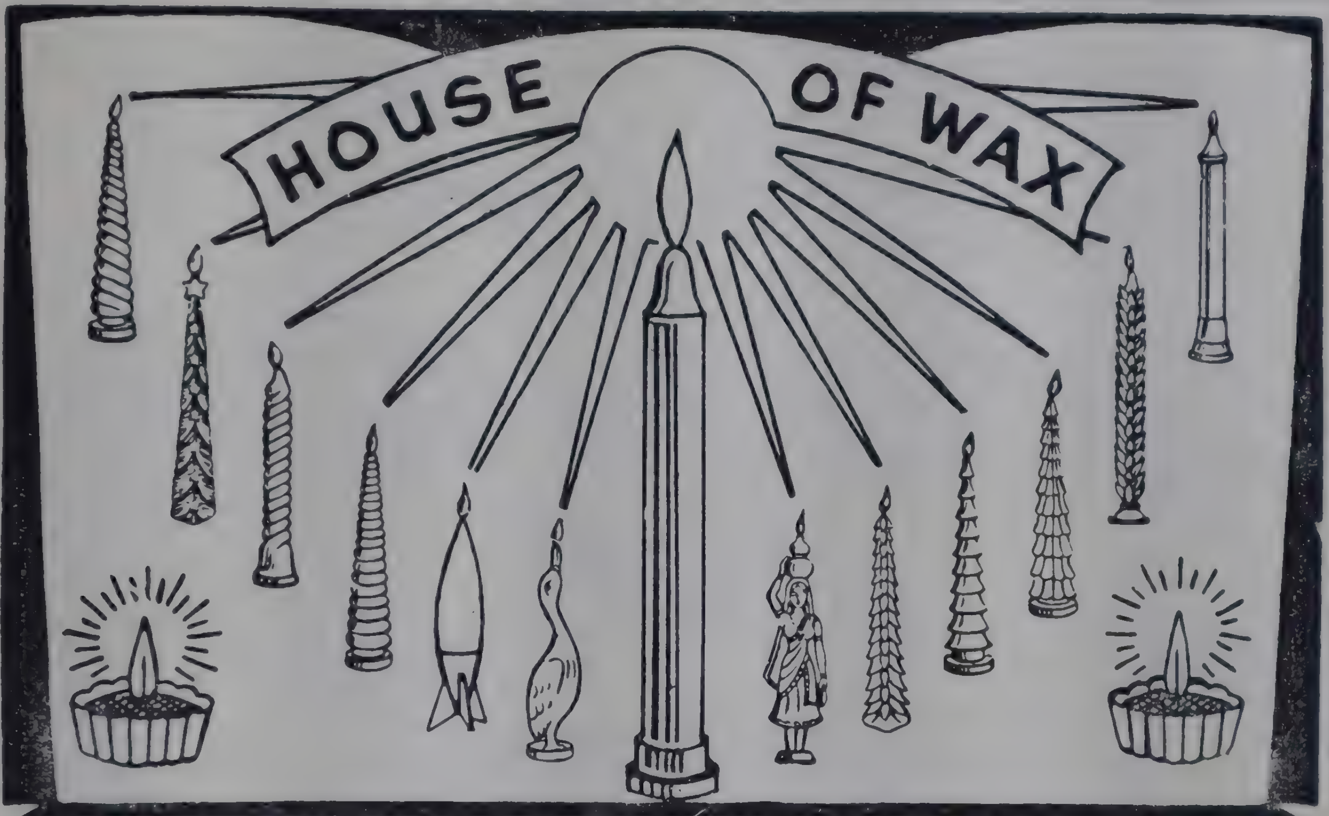

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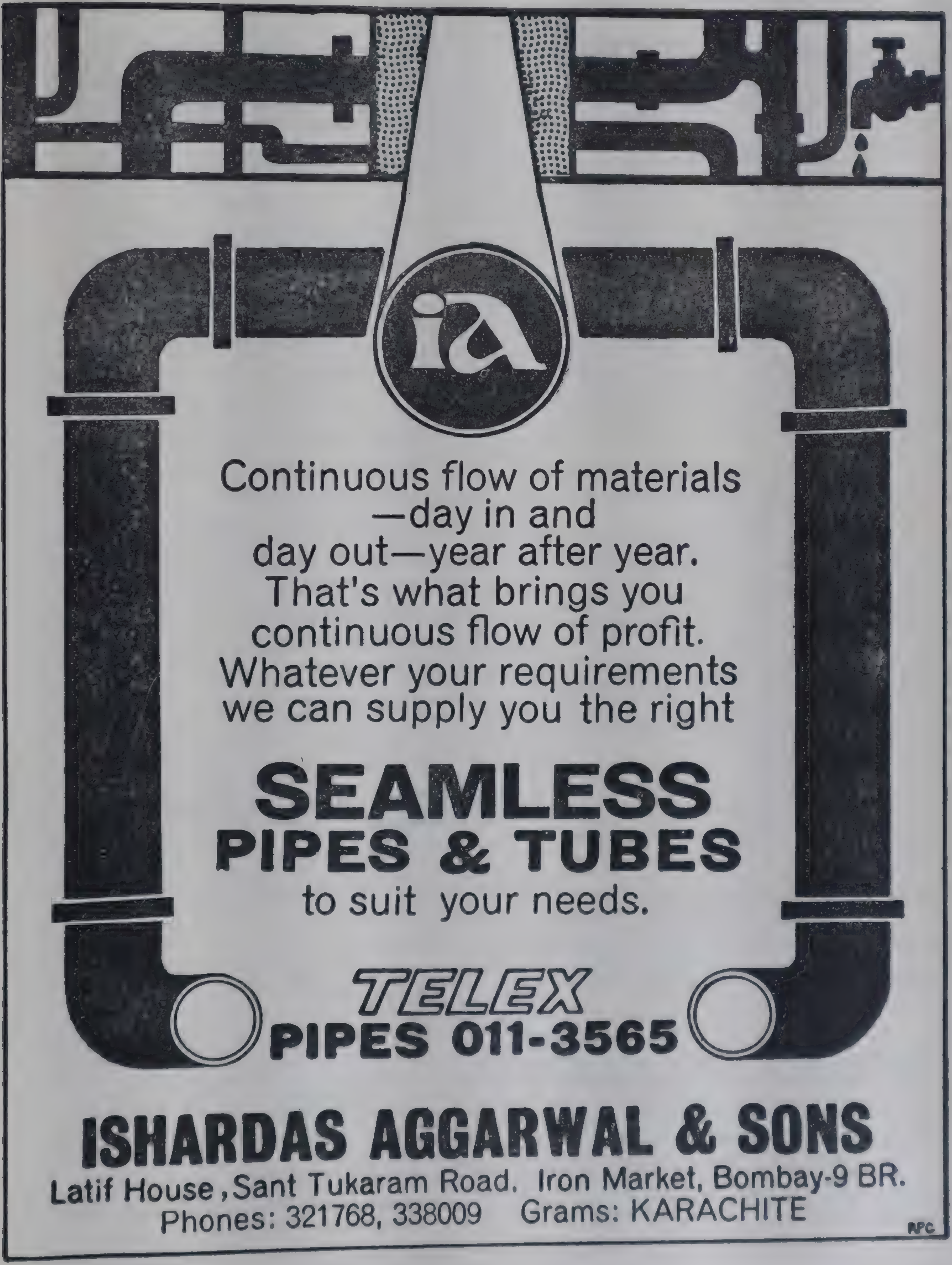

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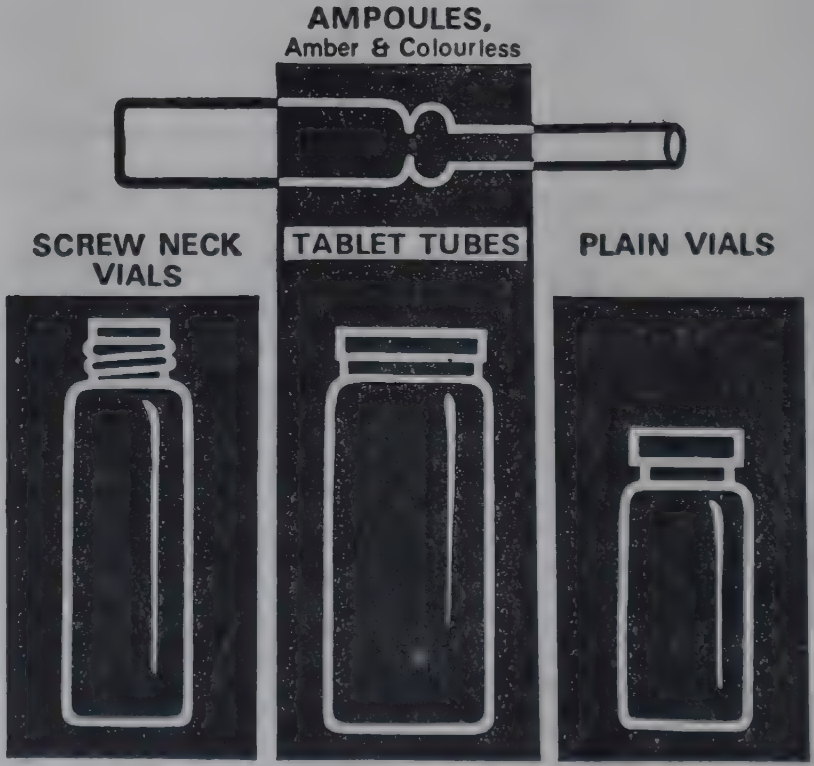
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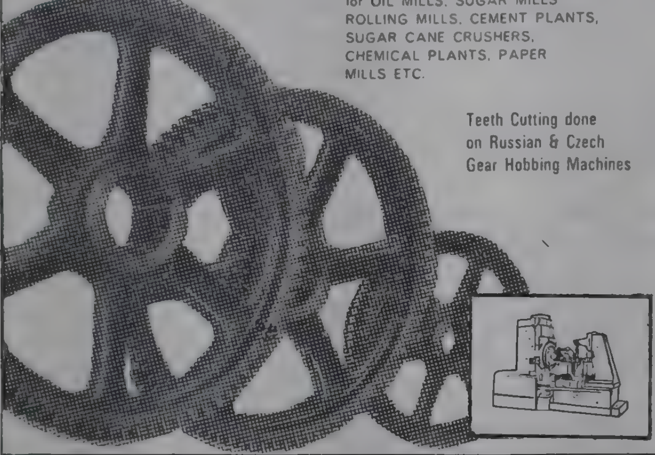

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Directors : Shri C. P. Ramachandran, Rear Admiral Krishan Dev, Vice-Admiral R. Tandon, Shri S. Balakrishna Shetty, Shri M. K. Tata, Dr. M. Pathak, Shri R. K. Dwivedi, Shri G. K. Abhyankar and Shri S. K. Bhatnagar.

List of Managers : Shri A. K. Sud, Financial Controller ; Shri E. R. Dastoor, General Manager (Shiprepair) ; Captain A. K. Murthy, I. N. (Retd.), General Manager (Works) ; Cdr. N. K. Sawhney, I. N. (Retd.), General Manager (Commercial) & Secretary ; Shri S. S. Dotivala, General Manager (Warship building) ; Shri S. S. Rajadhyaksha, Personnel Manager.

Dry Docks	Extreme Length (m)	Maximum width of vessel for docking (m)	Depth of water at S.M. H.W. (m)
' Ritchie '	150·88	18·59	5·49
' Mogul '	129·84	16·76	4·88
' Mazagon '	46·94	10·06	2·74

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Craft upto 145 m. in length or 15,000 tons dw. like destroyers and frigates, passenger ships, cargo ships, dredgers, tugs, barges, trawlers, launches, floating cranes, floating docks, special purpose pontoons and assault boats. (Company has entered into collaboration with I.H.C. Holland for building dredgers.)

Shiprepair :

All types of hull and engine repairs carried out to sea-going ships, both steam and diesel. Survey, testing, repair and recertification of marine inflatable liferafts by trained personnel undertaken.

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Phone : 296063.

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Directors :

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2. Shri Devji Rattansey
3. Shri Dhananjay M. Parekh
4. Shri Champaklal J. Shah
5. Shri Chandrakant M. Mehta
6. Dr. Cesare Rossi
7. Shri Ratilal D. Shah
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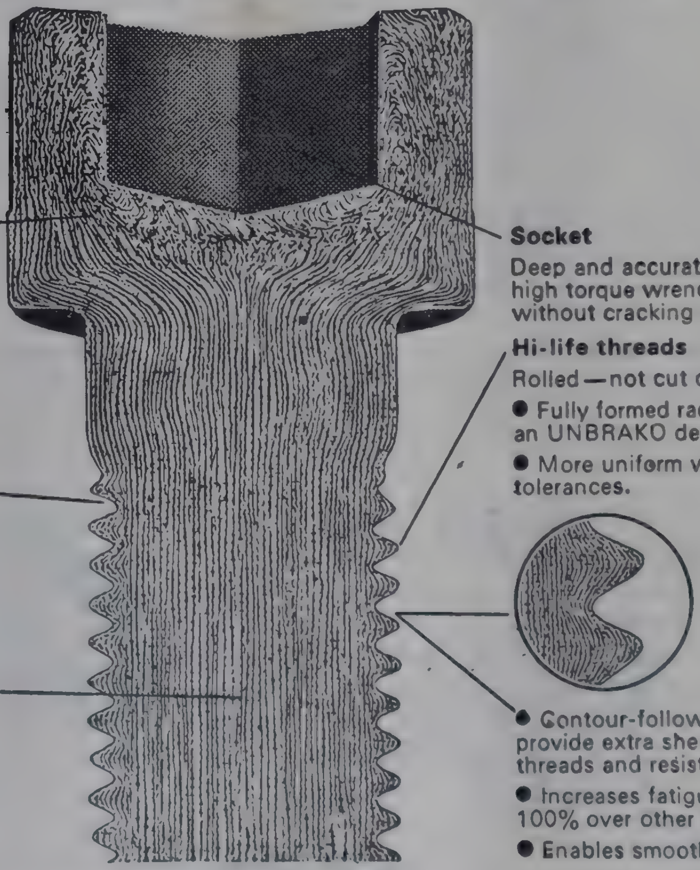

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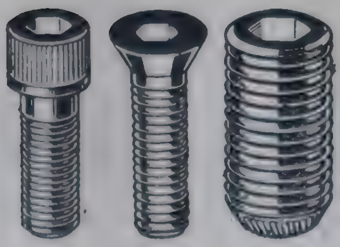

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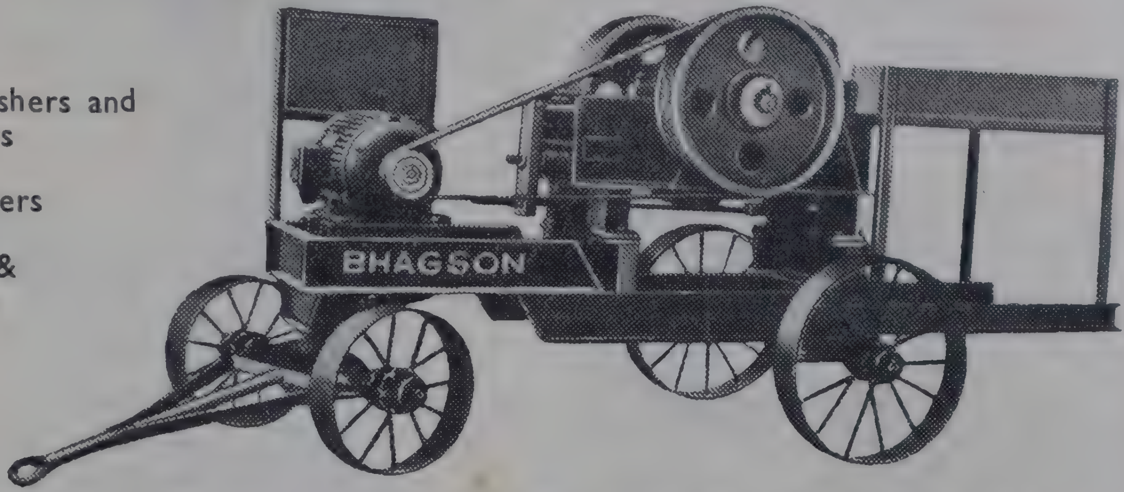

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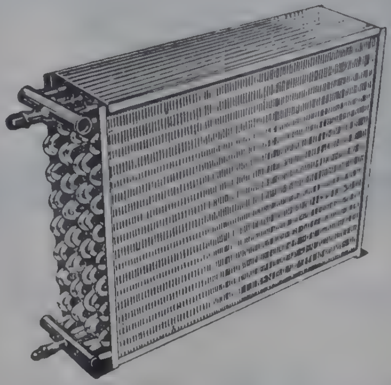

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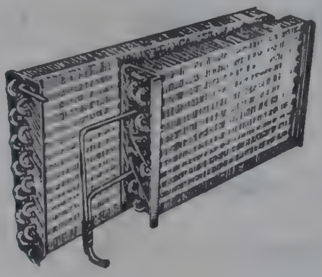

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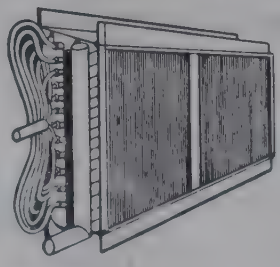

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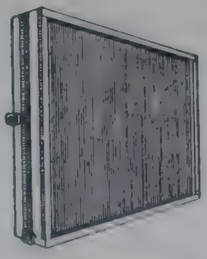

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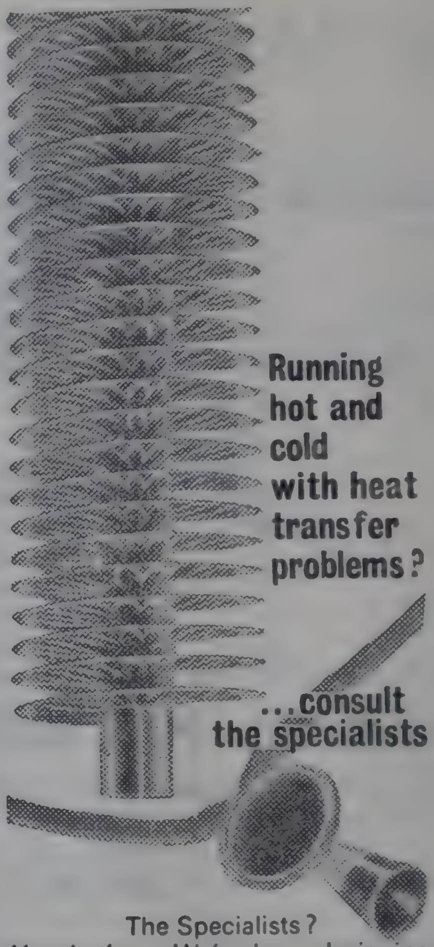
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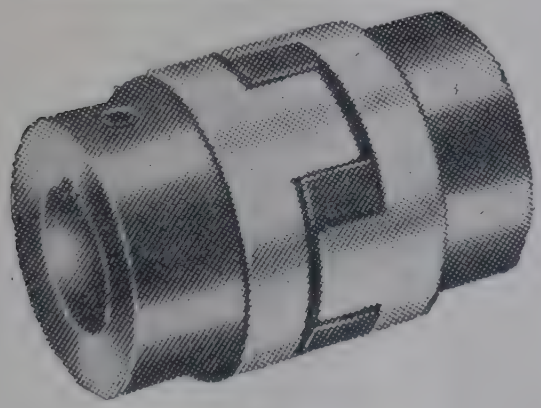

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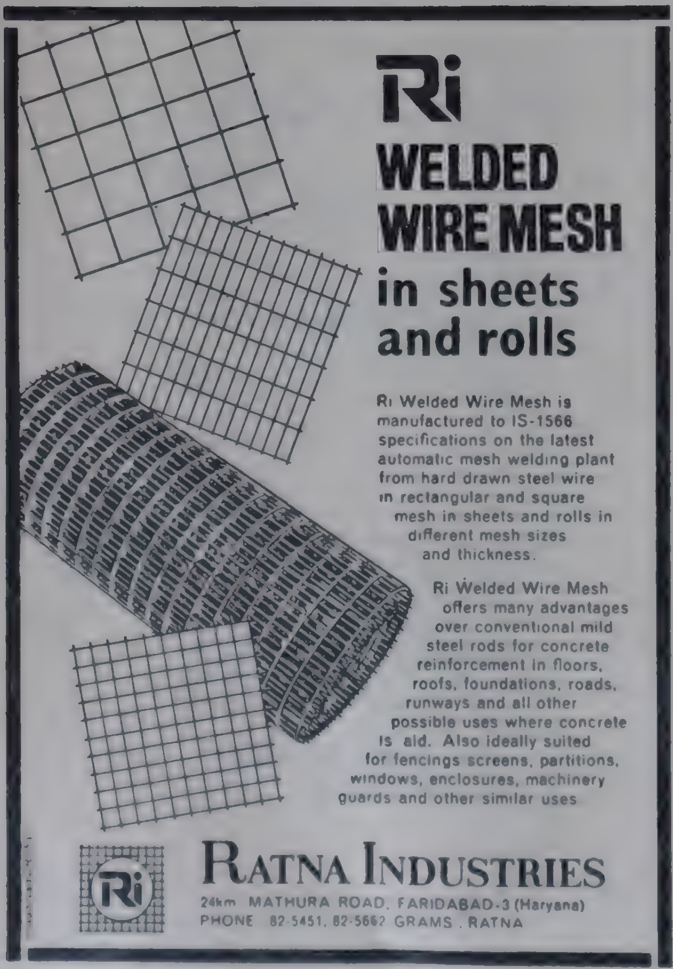

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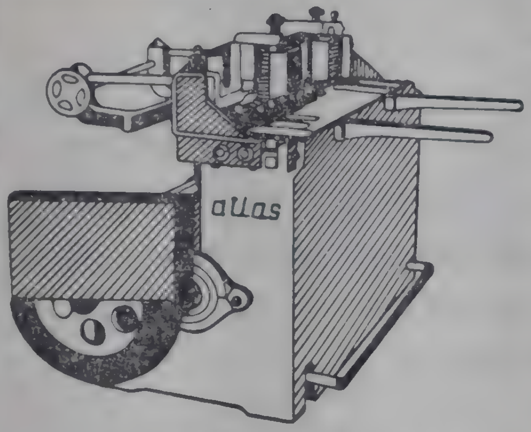

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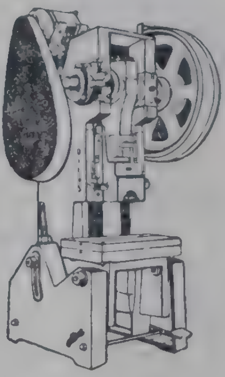

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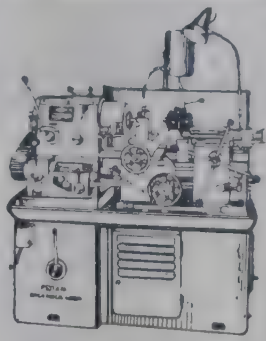

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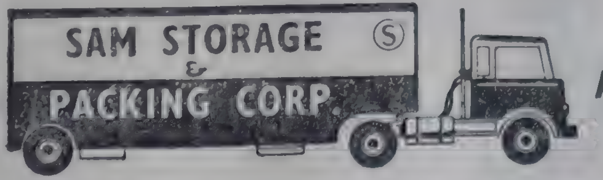

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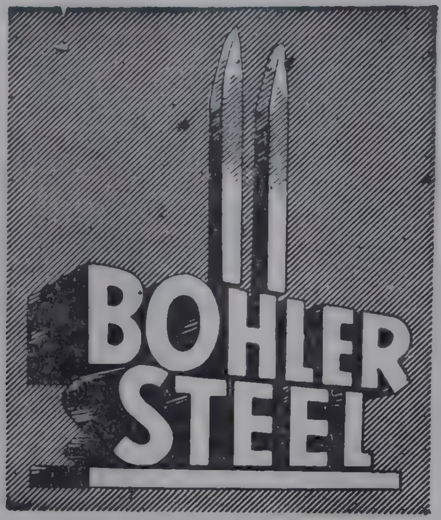

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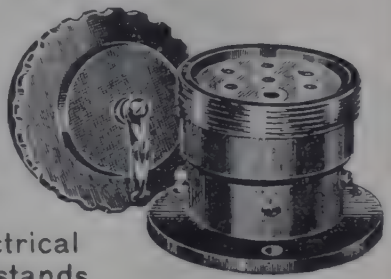

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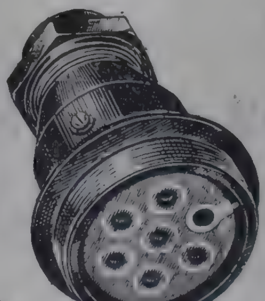

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ABRASIVE PRODUCTS OF INDIA

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Phones : 253988 & 253488. Grams : "APIGRIND".

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Managing Director : Mr. P. G. Desai.

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Stockists for : Carbide Tips and Tools by Sandvik.

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Phones : 326958, 320119.

Branch : 1483, Laheripura New Road, Baroda 390 001.
Associate : 390, Ganesh Peth, Poona 411 002.

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Telex : Suchi-011-3665.

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Moulding, Tool Room, ABS Plating under one roof.

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Manufacturers of : Account Books, Exercise Books and other Stationery.

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Phone : 692500.

ACIDS & SOLVENTS MFRS.

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Phones : *Office :* 319737, 259733.
Factory : 595056.

Manufacturers of : Acids, Solvents & other various chemicals in AR & CP Grade.

ACIDS, CHEMICALS, ETC.

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Bombay Administrative Office :
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Manufacturers of :

White Phosphorus, Phosphoric Acid & Phosphates (Calcium, Sodium, Ammonium, Potassium), Sodium Hexameta Phosphate, Tetra & Poly-Phosphates, Pretreatment Chemicals for Rust-proofing & Rust-removing.

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Manufacturers

BDM INDUSTRIES
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Phone : 582020. Grams : " GAMATAPES ".

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15 Grades of Synthetic Adhesives for glass, leather, metals, PVC, plastics etc. Also pressure sensitive types of PVC Stickers, insulation tapes.

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Offers :—

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Manufactured by :
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AIYARS ADVERTISING & MARKETING PVT. LTD.

" Nirmal ", 7th Floor, Nariman Point,
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Grams : PRESADS. Phone : 294373.
Telex 011-3174

Branches : New Delhi & Bangalore.

Managing Director : Mr. P. V. Dholakia.
Delhi : Mr. Mohan Guruswamy.
Branch Manager, Bangalore : Mr. R. Seshadri.

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HEROS' PUBLICITY SERVICE

4-B, Vulcan Insurance Bldg.,
Veer Nariman Road,
Bombay 400 001.
Phones : 292178-79. Grams : ' HEROSPUB '.

Branch : 4A, Little Russel St., Calcutta 16.

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HINDUSTAN THOMPSON ASSOCIATES LIMITED

International Advertising and Marketing Consultants, Express Towers, Nariman Point, Bombay 400 001.

Managing Director : Mr. Subhas Ghosal ; *Branches at :* Calcutta, Delhi, Madras and offices throughout the world

Phone : 297202.
Grams : ' THOMERTWAL '
Telex : 3555
P. O. Box 541

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(ESTD. : 1931)

Regd. Office: Khorshed Building, Sir P. M. Road, Bombay 400001. Also at Pharmed House, 141, Fort Street, Bombay 4000001. Grams: " JEYENJEYN ", Bombay, Phone: 263023. New Delhi Office: 127, Golf Links, New Delhi-110003. Grams: "JEYENJEYN". New Delhi, Phone : 618230. Calcutta Office : 326, Dum Dum Park, Calcutta 700 055. Grams : " JEYENJEYN " (C), Calcutta, Phone : 232456. Madras Office: Meco House, 5th floor, 11-A/1, Mount Road, Madras-600002. Grams: " JEYENJEYN " Madras, Phone: 87504.

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Phone: 220760.

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Phones: 256529—256630
Resi : 382672
Estd.: 1943

Rasik PUBLICITY CO.

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New Delhi 110001.

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Branch Offices : Causeway House, 3rd Floor, Colaba Causeway, Bombay 400 020.
Phone : 211255. Grams : " MOUNTAD ".
Ghosh Co. Crossing Gorakhpur (U.P.)
Phone : 338.
Managing Director : Reyaz Ahmed.

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Phone : 54221/2. Grams : " ALAMODE ".
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Jt. Managing Director : A. G. Tambe.
Branch Offices : 601, Niranjan, 6th Floor, 99, Marine Drive, Bombay 400 002. Phone : 295307.
General Manager : R. G. Tambe.
1/B, " Shanta ", St. Inez, Panaji (Goa) 403 001.
Phone : 3549.
Chief Executive : R. S. Moghe.

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KEY-CHAINS ETC.

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Phone: 226644.

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We are Specialised in: GIFT-PACK items for manufacturers of different trade.

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Works:—463706.

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"MANGOLA", "PINEOLA" and "LIMEOLA". Made from Fresh Fruit Juices. Bottles washed, syruped, filled and crowned by completely automatic machinery thereby ensuring absolute purity and cleanliness.

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Telephone: 394801 (4 Lines)

Telegraphic Address: "PUREDRINKS."

General Manager: Mr. Charles Singh.

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(Estd.: 1845)

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(Bombay-Madras).

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Grams: "PURIFIED." *Phones:* 326516 & 325633.
Branches: 12, Walltax Road, Madras 600 003.
Phone: 33400. *Grams:* "HARMLESS."
13-11-233, Convent Street, Park Road, Vijayawada-1.
Phone: 71004. *Grams:* "PURIFIED".
Also at: Shivaji Road, Kolhapur.

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(Estd. 1924)

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Phone : 327131. Grams : " AERATORS ".

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AGARBATHI
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Manufacturers :

ARAVINDA PARIMALA WORKS

MYSORE-4.

Grams : SUGSRINGAR. Phone : 21760 (3 lines).

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Manufacturers & Exporters of :

" CYCLE BRAND SUGANDHA MALLIKA AGARBATTIES "

N. RANGA RAO & SONS

VASU & CYCLE BRAND AGARBATHI WORKS.

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Phones : 21227 & 23507. Grams : " VASUBATHI ".

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AGRICULTURAL DISCS (INDIA) LTD.

Regd. Office & Factory : Industrial Area, Plot No. 65, Satpur, Nasik (Maharashtra).
Gram: " PLOWDISC ". Phone: 2583.

Bombay Office : United Bank of India Bldg., 3rd Floor, Sir P. M. Road, Bombay-400 001.
Gram: " PLOWDISC ". Phone: 251971.

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In technical collaboration with
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Phones : 56-6508, 22-1105.

Works :

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INDO AIR INDUSTRIES

Manufacturers of :

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Suppliers of Refrigeration & Air-conditioning Equipment for Cold Storages, Ice Plants & Central Air-conditioning Plants.

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Phone : 251340. Grams : " CLIMATEER ".

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Phone : 251798. Grams : " FRIGFROST ".
Telex : 011-3414.

Refrigeration and Air-conditioning Machinery, Components, spares and Accessories; Also Copper Tubings and Refrigerants;
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Phones: 256118, 290656, 573451, 575210, 583799.

Dealers for :

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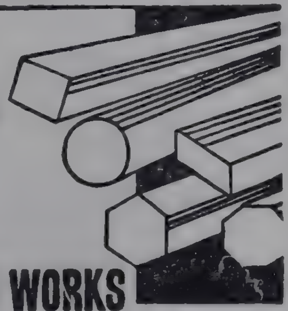

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DADAJEE DHACKJEE & COMPANY PVT. LTD.

DYES DEPT.—P. B. No. 3090.
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Phones : 324161/62. Grams : PROMPT, Bombay.

Importers & Exporters of and Dealers in Dyes, Chemicals for Cotton, Silk, Acetate Yarn and Woollen Textiles, Leather, Soap, Paper, Coir, Jute & Allied Industries ; Also Sulphur black and Photines (Optical Whitening Agents), Harmless Food Colours, Liquid Toilet Soap, Soap Powders, Detergents, Disinfectants and Insecticides and Intermediates for Dyes.

Branches :
Cannanore, Delhi, Kanpur, Madras, Madurai, Nagpur and Patna.

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Importers of :
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Exporters of :
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Phones : 262052. / 264849. Grams : "FLOWERMEAD".

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Astodia Road, Ahmedabad. Phone : 51271.
Itwari Bazar, Nagpur, Harisingh Katra, Amritsar.

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* Registered Trade Mark

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AMAR DYE-CHEM LIMITED

Manufacturers of Dyestuffs & Chemicals,
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Our production covers a wide range of dyestuffs required by the Textile, Paper, Plastic, Paint, Leather, Coir and Printing Ink Industries etc. and include Amarthols, Fast Colour Bases, Basic and Acid Dyes of the Triphenyl Methane Series, Pigment Printing Emulsions, Dry Pigments, Hot and Cold Brands of Reactive Dyestuffs manufactured for the first time in India under the brand name of Amaryls, a series of Optical Brightening Agents, Organic Peroxides, for the plastic industry and also intermediates required by the Dyestuffs, Pharmaceutical and other Chemical Industries.

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Telex : 2524. Kalyan Factory : Phone : 331.

DYESTUFFS MFRS.

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Phone : 52243. Resi. : 40772/40168.
Grams : " KHANNADYES ".

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Phone : 30065.

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Phones : Office : 321502; Resi.: 455929; Works : 691374.

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DYESTUFFS

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Ahmedabad 380 009.

Phones : 77573, 78086, 41941.

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DYESTUFFS

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TRADE MARK

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Phone : 345651.

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Phone : 375662. Grams : "JYOMPRO".
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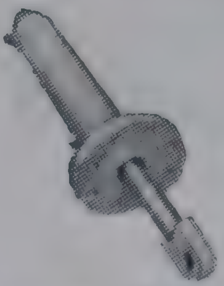

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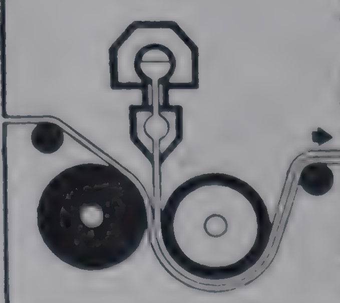

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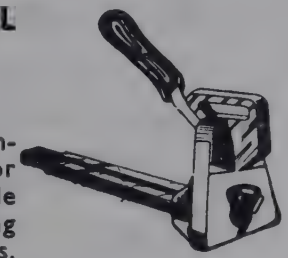

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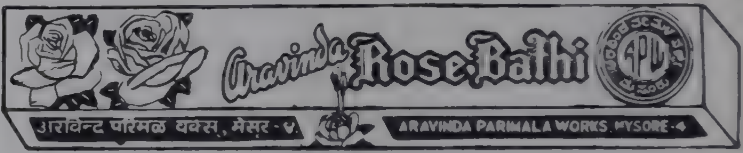
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Fine Chemicals Plant: Bombay-Agra Road, Balkum (Dist. Thana).
Phone: 593508.

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Phone : 290249.

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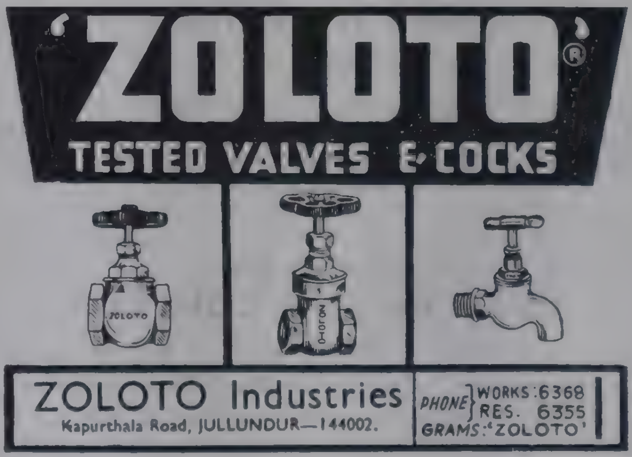

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High Speed Steel, Nickel Chrome Steel, Stainless Steel, High Carbon High Chromium Steel, Hot Die Steel, O.H.N.S. Die Steel, Carbon Tool Steel, Bright Bars etc.

Grams : " STEELALLOY ". Phone : 220247.

STEEL & ALLOY STEEL CASTINGS

STEELCAST BHAVNAGAR PRIVATE LTD.

Ruvapari Road, Bhavnagar 364 001
(Gujarat State).

Phone : 5224 (4 lines). Grams : " STEELCAST "
Telex : 071-207.

Specialists in:

Steel & Alloy Steel Castings as per Customers' Specification.

STEEL BALLS, ALLOY BALLS, BRASS BALLS

NEW HAVEN STEEL BALL CORPORATION PRIVATE LTD.

Manufacturers of :

STEEL BALLS (Sizes : ⅛″ dia. to ⅝″ dia. used in Bicycles & Ball Bearings).

Also, MINIATURE STEEL BALLS (Sizes : 1 mm to 2·5 mm. used by Ball Point Pen Industry, Precision Instruments and miniature Ball Bearing Industry).

Regd. Office : Pandyan House, 4th Floor, 309, Shahid Bhagat Singh Road, Bombay 400 001.
Grams : " GULDASTA ". Phones : 261522/3.
Telex: Haven 011-3398.

STEEL DOORS & WINDOWS

BEHAR BOBBIN & ENGG. WORKS

Katihar (Bihar).
Phone : 478.

Manufacturers of :

Steel Windows and Ventilators as per ISS & BSS, Window grills, Floor gratings, Collapsible gates.

Also Regd. with
MES & CPWD.

STEEL FURNITURE MFRS.

CHANDAN METAL PRODUCTS PRIVATE LIMITED

Manufacturers of : Steel Furniture & Equipment for Offices, Homes, Hospitals, Canteens, Libraries, etc.

Executive Office & Works :
Gorwa Road, Vadodara 390 003 (Gujarat).
Phone: 8571 (3 lines). Grams: "CHANDAN".
Telex : 017-231.

STEEL FURNITURE & EQUIPMENT

DELITE SAFE WORKS

Kutub Road, Delhi 110 006.
On D.G.S. & D. Rate
Contract for : Steel Almirahs & Furniture

Manufacturers of :

High Class Fireproof Iron Safes, Steel Almirahs, Cabinets, Cash Boxes, Chests, Office & Hospital Steel & Wooden Furniture, Sofa sets, Sofa-cum-Beds at moderate rates.

Branch : 46, M. M. Road, New Delhi.
H.O. : Qutub Road, Delhi 110 006.
Phones : 511380 & 515581.

STEEL FURNITURE & OFFICE EQUIPMENT MFRS.

Security Equipment, Safes, Steel Furniture for Office and the Home, Typewriters, Refrigerator, Machine Tools, Fork-Lift Trucks, Metal windows, Steel Tubing, Locks, Steel Castings.

GODREJ & BOYCE MFG. CO. PVT. LTD.

Head Office : 4A, Home Street, Bombay 400 001.
Phone: 268371.
Works : Vikhroli, Bombay 400 079. Phone: 582621.
Lalbaug, Bombay 400 012. Phone: 442231.

STEEL FURNITURE

INDIAN SAFE FACTORY

10254, Loha Mandi, Motia Khan,
New Delhi.
Phone: 51-1911.

Manufacturers of:

High Class Steel Almirahs, Racks, Chairs, Tables, Library Equipment, Hospital & School Steel Furniture at Moderate Rates.

Furniture supplied to various Govt. Offices.

STEEL FABRICATION & HEAT EXCHANGERS

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Designers, Fabricators and Errectors of welded or Riveted structures, we specialise in Technological Fabrication like Compossators, Heat Exchangers, Pressure Vessels, Pipe Specialists of large Diameters.

'SIMPLEX' can serve you better.

STEEL STRIPS (C.R.) MANUFACTURERS

GRAHAM FIRTH STEEL PRODUCTS (INDIA) LTD.

Regd. Office & Works :
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Bombay 400 063.
Phones: 691802, 694036. Grams: "GRAMFIRTH".
Telex: 011-4178, Bombay 400 062.

Manufacturers of :
Narrow Cold Rolled Steel Strips of Plain and Medium Carbon.

STEEL TUBULAR POLES

BOMBAY TUBES & POLES CO.

(Estd. 1954)

Manufacturers of :
Tubular Poles, Street Lighting Poles, Ship Mast, Boring Casing Pipes large Dimension of Pipes.

Darukhana, 2nd Lane, Mazagon,
Bombay 400 010.
Phones : 395719 & 394298.
Grams : 'TUBESPOLES'.

STEEL & TUBULAR FURNITURE MFRS.

CHATTERJEE ENGINEERING CO.

113, Lenin Sarani, Calcutta 700 013.
Phones : *Office & Showroom* : 24-6895.

Manufacturers of :
"CECO" Brand Steel Furniture, Tubular Furniture, Grills, Collapsible Gates, Steel Sashes, Rolling Shutters, Springs, Spring Washers, Circlips, Valve Assembly, Valve Spring, Valve Plate, Press Tool, Jobs etc.

STEEL TABULAR POLES

JAIBHARAT POLES MANUFACTURING AND ENGINEERING COMPANY

4-5, Industrial Estate,
Baroda 390 003.
Phones : 8213 & 51391. Grams : "JAIPOLE".

Steel Tabular Poles for :
STREET LIGHTING & OVER-HEAD LINES.

STEEL WINDOWS & DOORS

For steel and aluminium doors, windows, north lights, louvers, grills, gate and storage tanks

Please Contact:

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110A, Sanjay Building, Mittal Ind. Estate No. 2,
Andheri-Kurla Road,
Bombay 400 059.
Phone : 481991.

STEEL WINDOWS & ROLLING SHUTTERS

M. P. CORPORATION

54/1, Surjya Sen Street, Calcutta 700 009.
Phones : 355085 & 356638.

Manufacturers of :
MANJIR Brand Steel Rolling Shutters, Steel Doors & Windows, Gate-grill etc. Steel Almirah, Filing Cabinets, Chairs, Furniture & Other Engineering & Electrical Goods.

STEEL WIRE ROPES

MFGRS. OF WIRE ROPES (INDIA)
PEW

**QUALITY STEEL
WIRE ROPES
AND
STRANDED WIRES**

Manufacturers :

PRAKASH ENGINEERING WORKS

Tarun Plastic Compound,
Nagardas Road, Mogra, Andheri (E), Bombay 400 069.
Phones : 578527 ; *Office* : 324904.

STEVEDORES

NEW DHOLERA SHIPPING & TRADING CO. LTD.

Express Towers, 4th Floor, Nariman Point,
Bombay 400 001.

Branches : Cochin, Calcutta.

Telegram : "RAVASIA", Bombay.

Telephone No. 254455.

STEVEDORES & DUBASHES

EASTERN BUNKERERS LTD.

Stevedores, Dubashes, Landing, Victualling, Chipping & Painting Contractors, Clearing, Forwarding & Insurance Agents.

Scindia House, Narottam Morarjee Marg,
Ballard Estate, Bombay 400 038.
Phone : 262461. Grams : "VAVTO".

Directors : Smt. Sumati Morarjee (*Chairman*), R. P. Vevaina, J. C. Nanavati, S. P. Patel, Dhirajlal Maganlal Dalal, Ambalal Kilachand, J. S. Chanduwadia.

STEVEDORES & DUBASHES

HILL, SON & DINSHAW PVT. LTD.

Marshall's Bldg., Shoorji Vallabhdas Marg,
Bombay 400 038.
Phones: 262281 & 266105.

MASTER STEVEDORES & CONTRACTORS

Office Tel. Nos. 262281, 262282, 266105
Mole Station Godown Tel. No. 261659
Darukhana Godown Tel. No. 378975.

STEVEDORES & DUBASHES

M. DINSHAW & CO. PVT. LTD.

Marshall's Building, Shoorji Vallabhadas Marg,
Bombay 400 038.
Phones : 262281 & 266105.

MASTER STEVEDORES & CONTRACTORS

Office Tel. Nos. 262281, 262282, 266105
Mole Station Godown Tel. No. 261659
Darukhana Godown Tel. No. 378975.

STEVEDORES & DUBASHES

R. SHARP & SON PRIVATE LIMITED

Kaiser-i-Hind Building,

Currimbhoy Road, Ballard Estate,

Bombay 400 001.

Phone : 262440. Grams : "GRANITE".

STRUCTURAL ENGINEERS & CONTRACTORS

HIND TANK MANUFACTURING CO.

Structural Engineers & Contractors

Specialists in Plant & Machinery Designing & Fabrication & Storage Tanks.

Address : 150/B, Trimbak Parsaram Street,
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Phones : 331845, 333214. Grams : "INDUSPLANT".

STRUCTURAL ENGINEERS

ICEM ENGINEERING CO. PVT. LTD.

Mohanji Sunderji Road, P. O. Wagle,
Thana 400 604.
Phones : *H. O.* 311732. *Factory :* 593215.

Specialists in :

Fabrication of Reaction Kettles, Coded highpressure vessels, Designers & Fabricator's of Heat Exchanger, Air heaters and other chemical plant equipments in M. S. and S. S. (with Argon Arc welding) storage tanks, chimneys and light/heavy structural work.

STRUCTURAL ENGINEERS

INDIA TUBE MILLS & METAL INDUSTRIES PRIVATE LTD.

Structural Engineers and Tank Fabricators.

Manufacturers of Bright Bars.

Office : 9, Dhiraj Chambers, Waudby Road,
Bombay 400 001.
Factory : Agra Road, Opp. Powai Lake Road, Vikhroli,
P.O. Tagore Nagar, Bombay 400 083.
Phones : *Office :* 265783/84/85 Grams :
Factory : 581541 & 581542. "TUBEMILL".
Directors : O. P. Aggarwal, C. M. Aggarwal,
D. C. Aggarwal, D. K. Aggarwal.

STRUCTURAL & MECHANICAL ENGINEERS

Estd. 1907 by Sri Kowtha Suryanarayan Row

INDIAN COMMERCE & INDUSTRIES CO., (P) LTD.

95, Broadway, Madras 600 001. Phone : 21071.

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BEEHIVE FOUNDRY ENGINEERING WORKS
Madras.

AND

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Ramavarppadu (Krishna Dist.)

Structural Steelwork and Alloy & Special Steel Castings.

STUD BOLTS

BOLTS, SCREWS
NUTS
FULL THREADED BARS

ANY MATERIAL, ANY THREAD FORMS
ASTM, IS, DIN SPECIFICATION

Precision Taps & Dies Pvt. Ltd.

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Phones : 534031-32, 542522-23-24.
Grams : "UNIQUE".

SUGAR FACTORIES

THE PHALTAN SUGAR WORKS LTD.

199, Churchgate Reclamation,
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Phones : 256588, 256694 & 297972.

Grams : "RISINGSUN". Telex : 011-2891.

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SURGICAL INSTRUMENTS & APPLIANCES

IMPERIAL SURGICAL CO. PRIVATE LTD.

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Leading Manufacturers of : Hospital Equipment, Importers of Surgical Instruments, Hospital Sundries, Catguts and Ligatures, Dental Instruments, Electro-Medical Equipment. *Agents :* "ISCOMED" Syringes and Needles. Also "ULTRADENT" Dental Equipments, Sterilizers, Shadowless Lamps, Suction Apparatus and other Equipments. Grams: "IMPSURGCO".

Phones : 266511 & 266512.

Branches at : Lucknow, New Delhi and Hyderabad.

SURVEYING INSTRUMENTS

INDIAN TECHNOLOGICAL PRODUCTS

21, Babar Road, New Delhi 110 001.
Phone : 4-3344. Grams : "INDIASBEST".

Agents :
NATIONAL EMPORIUM, ROORKEE

Available from Ready Stocks :
Theodolites, Dumpy Levels, I.O.P. Levels, Compasses, Lavelling Staves.

Excellent REPAIR FACILITY available for all makes of Survey Instruments.

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Pioneers, Dumpy levels, Theodolites, Mining Dials, Compasses, Planimeters, Tracing Papers, Tracing Clothes & Office Stationers.

223, Himalaya House, 79, Palton Road,
Bombay 400 001.
Phone : 267850.

Head Office : 43, Ezra Street, Calcutta 700 001.
Phones : 341134, 341665. Grams : "NOBLETRADE". Bombay & Calcutta.

SWITCHES

"AG" Brand
CENTRIFUGAL SWITCHES
For ELECTRIC MOTORS

TRANSACTO

Devkaran Mansion, Block No. 6, Ist Floor,
Vithaldas Road, Bombay 400 002.
Phone : 359710. Cables : "OTCASNART".

SWITCHGEARS, MOTORS & CABLES

SIEMENS

Authorised Dealers :

TOYO ENGINEERING CO.

Hari Nivas, M. G. Road,
Thana 400 602.
Phone : 592527.

SYRINGES

HINDUSTAN SYRINGES PVT. LTD.

Faridabad (Near Delhi).

Manufacturers of :
Hypodermic Syringes, Interchangeable All Glass/Luer Lock Syringes.
1 cc to 50 cc.

Sole Distributors :
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3-D, Mangaldas Market, Mangaldas Road,
Bombay 400 002.
Tel. : 313885, 313827 ; *Res. :* 366886, 362480.

SYRINGE MFRS.

TOP SYRINGE MANUFACTURING CO.

Office : Prospect Chambers Annexe,
317-21, Dr. D. N. Road,
Bombay 400 001.

(HYPODERMIC SYRINGES — Luer Glass Tip, Luer Lock Tip-SPECIAL SYRINGES ¼ ml, ½ ml and 1 ml and SQUARE HAEMOMETER MEASURING TUBES for Haemometers).

Factory :
Mira Village, S. V. Road,
Bombay 400 068.

TARPAULIN

'DUCK'

TARPAULIN

MOST TRUSTED NAME

DWARKADAS VELJI TALPATRIWALA

YOGESHWAR 135/137, Kazi Syed Street,
Bombay 400 003.
Tel.: 323232. Grams: "VELTHAKKER".

TARPAULIN

JERAM SHIVJI & SONS

138, Futnani Chambers,
Yusuf Meherali Road, Bombay 400 003.

Stockists of Tarpaulin, Hessian, Jute Gunny Bags, Twines, Cotton Canvas, etc.

Phones : *Office :* 320326 ; *Resi. :* 473944.

TARPAULIN

SWASTIK TARPAULINS MANUFACTURING CO.

Manufacturers, Exporters of :

Waterproof Tarpaulins, Lorry & Wagon Covers. Erection of Temporary Monsoon Sheds undertaken.

66/68, Dontad Street, Bombay 400 009.
Phone : 338831. Grams : "DUCKCOVERS".

TAXIMETERS & PRECISION INSTRUMENTS

R. C. EDWARDS & CO., PRIVATE LTD.

16 Arthur Bunder Road, Colaba, Bombay 400 005.
Phone: 212032 Grams: "EDDICOM".

Manufacturers of:—FARE METERS "ARGO" Taximeters, "EDCO" Autorickshaw meters Kienzle Vibracorders and other Precision Instruments

Chairman, Board of Directors:—Sardar Bahadur Bakshi Dalip Singh.

Managing Director:—Mrs. Anup Jagtar Singh.

Operations Director: Mr. Kamalbir Singh.

TEA MERCHANTS

AMBER TIPS PRIVATE LIMITED

Tea Blenders and Package Tea Packers.

75, New Bardan Lane, Mandvi, Bombay 400 003.

Phone No. 324684.

TELEPHONE ENGINEERS

SUPERPHONE INDIA

Telecommunication Engrs., Contrs. & Exporters. Mfrs. of SUPERPHONE Inter-communications Telephones & Exchanges of all System, Spare-parts, Accessories, Line Materials, Battery-Eliminators. Undertake complete installation, Repairs, Maintenance, Service & Wiring.

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C-Geeta Bhavan, Bombay 400 036.
Phone: 367920. Grams: "PHONESUPER".

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DISCO TELEVISION CO.

Sole Distributors for : 'DISCO' T.V. sets.

Stockists of 'J.K.' T.V. sets & 'GEM' Refrigerators.

Expert service arrangements for all makes of T.V. Receivers.

D-16, Defence Colony, New Delhi 110 024.
Phones : 626751, 623372.
Grams : "DISCEXPORT".

TENTS

LALSON EXPORTERS
LAL SINGH SETHI & SONS

Manufacturers & Exporters of :
Tents, Garden and Surveyor's Umbrellas, Tarpaulin, Tape Newar, etc.

Head Office :
8, Regal Building, Parliament Street,
New Delhi.

Export Office :
Rewa Chambers, New Marine Lines,
Bombay 400 020.
Phone : 291614.

TEXTILE ENGINEERS

THE NEW INDIA INDUSTRIES LIMITED

R.O. & Works : Jetalpur Road, Baroda 390 005.
Phones : 64502/64162. Telex : 017-315.

Foremost Manufacturers of :
'INDIA' brand best Egyptian Cotton Healds, Steel Reeds, 'CYCLE' brand Wire Healds, All Metal Reeds. Jute Cambs, Jute Reeds, 'SWAR' brand Egyptian Cotton Yarn and Staple Fibre Yarn, 'AGFA' camera and 'AGFA' Photographic Printing Papers.

Bombay Office :
'Bhaktawar', 12A, 228, Backbay Reclamation,
Bombay 400 020.
Phones : 293660 & 293704.

TEXTILE & ART SILK MACHINERY & PARTS

D. PARIKH ENGINEERING WORKS

Hydro Extractor Machines, Drum Washers, Colour Mixing Pans, Sizing Kettles, Machinery Parts like s.s. J. Box, s.s. Rolls, Cylinders, Troughs, Tanks, Perforated Beams etc.

115, Marol Co-op. Industrial Estate, Mathuradas Vissanji Road, Near Saki Naka, Bombay 400 059.

Phones :
Factory & Office : 583788
PRD Factory : 458422
Residence : 534980

TEXTILE AUXILIARIES

AHURA CHEMICAL PRODUCTS PRIVATE LTD.

Manufacturers of:—All Textile Auxiliaries, Surface Active Agents, Turkey Red Oil, Synthetic Anionic Detergents and Wetting Agents, Non-ionic Emulsifiers for various Industries, Cationic Germicides and Softeners, Cosmetic Raw Materials Cross Linking Agents and Other General Chemical Products.

Address : 84, Sion Road, Bombay 400 022.
Telephone Nos:—473351/55.
Telegrams:—"AHURACHEM". Telex: 011-3917.
Managing Director:— S. M. Mistry.

TEXTILE AUXILIARIES

ESKAY CHEMICAL CORPORATION

Makers of Quality Products
SKAYWHIT Fluorescent Whitening Agent
ESKAYGENE Printing Dyestuffs
ESKAYLAN Synthetic Detergent

22D, Parsi Bazar Street, Fort, Bombay 400 001.

Phone : 256305. Grams : "ESKAYCHEM".

TEXTILE AUXILIARIES MFRS.

VIJAYA TEXTILES

Address :
Hindustan Tyres Pvt. Ltd. Compound, Opp. Agripada Police Station, Dr. Anandrao Nair Road,
Bombay 400 011.
Phone: *Factory:* 375533.

Manufacturers of :
Textile Auxiliaries, Metallic Stearates and Vinyl Stabilizers.

TEXTILE CHEMICALS MFRS.

GUJCHEM DISTILLERS INDIA LTD.

Regd. & Head Office :
Gujchem Factory, P.O. Sardesai Factory, Bilimora (W. Rly.),
Dist. Valsad, (Gujarat).
Phones : 464, 465 & 384. Grams : "GUJCHEM".

Bombay Office :
82, Advent, 12-A, Gen. Jagannathrao Bhonsle Marg,
Bombay 400 001.
Phone : 253004. Grams : "GUJCHEMBOM".

Manufacturers of :
Speciality Chemicals for Textile, Rayon, Wool, Jute, Paints, Paper, Petroleum & Leather, Additives, Cross linking Agents, Adhesives, Emulsifiers, De-Emulsifiers, Carboxy Methyl Cellulose, Monochloro Acetic Acid, Methyl & Ethyl Esters of M.C.A. Industrial Alcohol. EDTA.

TEXTILE ENGINEERS

THE EASTERN CARD CLOTHING CO. PRIVATE LIMITED

Works & Office :
Dr. Anandrao Nair Road, Lal Chimney,
Bombay 400 011.
Phone : 374673. Grams : "WIRE FILLET (J.C.)".

Re-Needling services of Comber Cylinders & Top combs etc.

TEXTILE ENGINEERS

ORMERODS (INDIA) PVT. LTD.

Importers & Exporters & Mill Gin Stores
and Filter Cloths Suppliers.

Address : Bank of Baroda Bldg., Apollo Street,
Bombay 400 001.

Phones : 255434/35 (2 lines). Grams : "RAMSHEAD".

TEXTILES & JUTE MACHINE MFRS.

JOHN T. HARDAKER (INDIA) PVT. LTD.

Jacquard Machines Makers, Harness Builders, Card Cutters and Designers and General Engineers.

Office & Works :
Fergusson Road, Lower Parel, Bombay 400 013.

Phone : 373469.

TEXTILE MACHINERY MFRS.

AUTO TEXTILE INDUSTRIES

(Estd. 1967)

C/o Poonjabhai Vanmali & Sons
Gheekanta Road, Ahmedabad.

Manufacturers of :
SPINNING & DOUBLING RINGS
for Cotton, Silk, Rayon & Jute Mills.

Phones : 22565 & 25939. Grams : C/o "TRUFIT".

TEXTILE MACHINERY

CALICO INDUSTRIAL ENGINEERS

Manufacturers of :
TEXTILE WET PROCESSING MACHINERIES

Office & Factory :
20A, Chakala Road, Andheri, Bombay 400 093.

Grams: "WETPROCESS". Phones: 574381-82-83.

Telex No. 011-2838.

TEXTILE MACHINERY MFRS.

POONJABHAI VANMALI & SONS

(Estd. 1916).

Gheekanta Road, Ahmedabad.

Manufacturers of :
Textile Machinery, Spare Parts & Gears of all types.

Phones : 22565 & 25939. Grams : "TRUFIT".

TEXTILE MACHINERY

STAR TEXTILE ENGINEERING WORKS LTD.

Manufacturers of :
Drafting modernisation systems for Ring & Speed Frames for Cotton Textile and Jute Spinning Machinery, Rotary and Flat Bed Screen Printing Machines & Screens, High Pressure High Temperature Dyeing Plants & Jet Dyeing Plants, Water & Air Purification Systems and Plants, Machine Tool Equipment and Engineering Goods.

Regd. Office : Dhanraj Mahal, Chhatrapati Shivaji
Maharaj Marg, Bombay 400 001.
Phone: 251357.
Works : Manpada-Bhopar, near Dombivli,
Thana District, 421 204.

TEXTILE MACHINERY COMPONENTS

SUESSEN TEXTILE BEARINGS LTD.

Manufacturers of :
Textile Spinning Machinery Components and Bearings, Water Pump Bearings for Automobiles etc.

Regd. Office & Factory :
Bombay-Ahmedabad National Highway No. 8,
Baroda 390 009.
Phone: 52943. Grams: SUESSENTEX. Telex: 217.

Head Sales Office :
12/B, 'ADVENT', 12-A, Foreshore Road,
Bombay 400 021.
Phone: 251715. Grams: SUESSENTEX.
Telex: 3350 (AB Code STB — BY).

TEXTILE (COTTON) MILLS

THE RAGHUVANSHI MILLS LTD.

11-12, Senapati Bapat Marg, Bombay 400 013.
Grams: "RAGHUBIR". Phones: 393171-2-3.

Spindles 44,000, Art Silk Looms 144.

Manufacturers of :
Cotton Yarn 20s to 100s, Staple Fibre Yarn, Blended mixed yarn and Polyester Terene Nylon and other Man-made fibre fabrics, Shirtings, Suitings, Sarees and Dress materials.

Chairman : Shri Surendra Maganlal.
Managing Director : Shri Hareschandra Maganlal.

TEXTILE MILLS

SHREE MADHUSUDAN MILLS LIMITED

Shankarrao Naram Path, Pandurang Budhkar Marg,
Bombay 400 013.
Phones : 395681-3, 395012. TEXMARK: 1592.
Grams: " MADHUMILL "
Shop: At Govind Chowk, M. J. Markt, Bombay 400 002.
Phone: 311849.

Spindles: 88,140; Looms: Ordinary 1,460; Automatic 74.

30s to 140s, Single or Double Yarn. Cloth width: 66 cm. to 165 cm.; Mercerised, Dyed, Printed, Sanforised and Wash-N-Wear in cotton and tere-cotton.

Reg. Office: 31, Chowringhee Road, Calcutta 700 016.
Phone: 240555 Grams: " HALLSON "

Board of Directors : R. N. Bangur (Chairman), B. G. Bangur, J. K. Somani, M. L. Somani, S. K. Majeji.

TEXTILE MILLS

SHREE SHAKTI MILLS LTD.

Mills at Mahalaxmi.

Regd. Office : Podar Chambers,
Sayyad Abdulla Brelvi Road, Bombay 400 001.

Manufacturers of :

High quality Topstyle Suitings, Shirtings, Ladies Dress Material and Stretch Nylon Georgette Sarees etc. & American Georgette.

Phone : 269011. Grams : " SHREESAKTI ".
Telex : 011-2108.

TEXTILE MILLS

SHRI VIVEKANAND MILLS LTD.

Manufacturers of Textile Piecegoods.
Ahmedabad 380 021.

Managing Directors :
Shri C. N. Munshaw and Shri B. N. Munshaw.

Spindles: 31,212.
Looms : Ordinary 526.
Automatic 48.

Manager : Shri I. S. Devashrayee.
Phones : 32687 & 32688. Grams : " VIVEK ".

TEXTILE MILLS

THE TARUN COMMERCIAL MILLS LTD.

Outside Kalupur Gate, Railwaypura Post,
Ahmedabad 380 002.

Manufacturers of Cotton Piecegoods.

Chairman : Seth Indravadan Pranlal

Managing Directors : Seth Indravadan Pranlal
Seth Madhukant Pranlal
Seth Surendra Pranlal

Phones : 31800 & 31801. Grams : " MAYUR ".

TEXTILE STORES & MACHINERY SPARE PARTS SUPPLIERS

BHAGWATI TRADING COMPANY

61, Tulsi Niwas, Churchgate, D-Road,
Marine Drive, Bombay 400 020.
Phones : 252445/6, 293575. Grams : " RAMKARAJ ".

Manufacturers, Stockists of :

Picking Bands, Picker Savers, Pickers, Buffers, Plastic Bobbins, Fibre Card Cans & Springs, Aprons & Cots, Mutton Tallow, Sperm Oil, Nylon Belts, Machinery Cloth, Leather Beltings, etc.

TEXTILE PROCESSING MACHINERY

MATHER GREAVES LTD.

Manufacturers of :

Textile Bleaching, Dyeing, Printing & Finishing Machinery.

*

Udyog Bhavan,
29, Walchand Hirachand Marg,
Ballard Estate,
Bombay 400 001.
Phone: 269661.

THERMAL INSULATION

INDUSTRIAL MINERALS & MILL STORES TRADERS

Mercantile Bldgs., P. B. No. 2076.
Calcutta 700 001.

Specialists in Heat & Cold Insulations.

Manufacturers of :

' IMCO ' 85% Magnesia, Hardsetting—Cement, Calcium Silicate Insulation—Slabs & Pipe Sections made out of 85% Magnesia, Calcium Silicate & Asbestos Fibre & allied Products.

Branches : P.B. No. 1195, Delhi 110 006.
& P.B. No. 1445, Madras 600 017.

TIMBER

FAKHRI TIMBER TRADERS

Ulwa Road, PANVEL, Dist. Kolaba.
Tel : 528.

Stockists of :

All kinds of Timber, Vellapine, Silver Oak, Teak-wood, Bullies & Bamboos.

Bombay Office : 186/188, Janjikar Street,
Bombay 400 003.
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CONSTITUTION

THE Indian Constitution was adopted by the Constituent Assembly on 26th November 1949, and came into force on **26th January, 1950.** The Preamble embodies the resolve to secure for all citizens: **Justice** — Social, economic and political; **Liberty** — of thought, expression, belief, faith and worship; **Equality** — of status and opportunity; and the assurance to uphold the dignity of the individual and unity of the nation.

India is a sovereign Democratic Republic with a parliamentary form of government elected on the basis of universal adult franchise.

States & Territories: India is a union of 21 states and 9 Territories. These are: **States:** — Andhra Pradesh, Assam, Bihar, Gujarat, Haryana, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Nagaland, Orissa, Punjab, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh and West Bengal.

Union Territories — Arunachal Pradesh, Chandigarh, Dadra & Nagar Haveli, Delhi, Goa, Daman & Diu, Lakshadweep, Mizoram and Pondicherry.

Citizenship: Single and uniform citizenship is ensured throughout India. All those who were domiciled in India at the commencement of the Constitution; all those born in India or, either of whose parents were born in India; and, all those who were residing in India for at least five years preceding the commencement of the Constitution became citizens of India.

Special provision, however, had to be made for those who migrated from Pakistan and those of Indian origin who reside abroad.

Further the **Citizenship Act of 1955,** provides for acquisition of citizenship by birth, descent, registration and naturalisation.

Fundamental Rights: All citizens, individually and collectively, are assured the following basic freedoms which are justiciable:

1. The right to equality including equality before the law, prohibition of discrimination on grounds of religion, race, caste, sex or place of birth, and equality of opportunity in matters of employment.
2. The rights of freedom of speech and expression, assembly, association or union, movement, residence, acquisition, holding and disposal of property; the right to practice any profession or occupation; public order, decency and morality.
3. The right against exploitation, prohibiting all forms of forced labour, child labour and traffic in human beings.
4. The right to freedom of conscience and free profession, practice and propagation of religion.
5. The right of minorities to conserve their culture, language and script and to establish educational institutions of their choice.
6. The right to property, subject to the State's right to compulsory acquisition for public use.
7. The right to constitutional remedies for the enforcement of fundamental rights.

Amendment to Rights: The validity of two important Constitutional amendments — the Constitution (Twenty-fourth) Amendment Act 1971 and the Constitution (Twenty-fifth) Amendment Act 1971 — relating to Fundamental Rights was challenged in six writ petitions before the Supreme Court.

The 24th Amendment sought to restore to Parliament the power to amend every provision in the Constitution including the fundamental rights.

The 25th Amendment Act substituted clause 2 of Article 31 of the Constitution with a new clause 2 where the word "compensation" was substituted by the word "amount." It also included a new Article 31C saving certain laws giving effect to Directive Principles specified in Clause (*b*) and Clause (*c*) of Article 39 from challenge under Articles 14, 19 and 31.

Supreme Court Judgement: By a majority judgement on April 24, 1973, the Supreme Court upheld the validity of the 24th Amendment Act but declared that Parliament's amending power, under article 368, was not wide enough to include amendments which would abrogate the "basic structure" of the Constitution.

The Court also upheld the validity of the 25th Amendment Act with the proviso that though the amount fixed or determined need not be the market value of the property acquired or requisitioned, it must not be "illusory."

About Article 31C, the Court declared, as valid, the first part of the article which provides that laws giving effect to Directive Principles, contained in Clause (*b*) or Clause (*c*) of article 39, shall not be void on the ground that they are inconsistent with or take away or abridge any of the rights conferred by articles 14, 19 and 31.

However, it declared void the latter part of Article 31C which had conferred immunity, from judicial review, on laws containing declarations that they were for giving effect to the policy set out in Clause (*b*) or Clause (*c*) of article 39.

Division of Subjects: Defence, foreign affairs, transport and communications, currency and coinage, banking, customs and export duties, and the administration of justice at the higher level are all union subjects, while State powers include those over police, public health, education, agriculture, forests and so on.

There is a third group of subjects called Concurrent List containing trade and industry, economic and social planning, social security and insurance, labour welfare, price control, electricity, newspapers and books and vital statistics. On these subjects both the Centre and the State can freely legislate, it being understood that whenever there is conflict between Union and State legislation the Union laws will ordinarily prevail.

If at any time, a subject which does not figure in any of the three lists, comes up for consideration the power of dealing with it lies with the Union Government.

The Union List has 97 entries, the State List 65 and the Concurrent List 47.

Elections: All elections are directed and controlled by an Election Commission. Elections to the Lok Sabha and the Legislative Assemblies of the States are on the basis of adult suffrage. Seats are reserved in the Lok Sabha for the Scheduled Castes and the Scheduled Tribes.

Public Service: There is a Public Service Commission for the Union and one for each State. The Union Public Service Commission operates for the Union Territories as well.

DIRECTIVE PRINCIPLES: In Part IV certain directive principles of State policy are laid down for the guidance of the legislatures as well as governmental authorities. They relate to (*a*) Principles of social policy, (*b*) Principles of administrative policy (*c*) Socio-economic rights and (*d*) a statement of the international policy of the Republic.

The Directive Principles are not enforceable by any courts.

UNION EXECUTIVE: The executive head of the Indian Union is the President. He is elected by the elected members of the Houses of Parliament and the Legislative Assemblies of all the States. His term of office is five years, and he is eligible for re-election. Only a person who is a citizen of India and has completed the age of thirty-five years is qualified to contest the election.

Salary: The President is entitled to the use of an official residence without payment of rent, and a salary of Rs. 10,000 per month and allowances. Provision has also been made by an Act of Parliament for a pension of Rs. 15,000 per annum. He is also entitled to a maximum of Rs. 12,000 per annum for the sake of secretarial staff and other expenses.

Presidential Powers: The President exercises the powers vested in him either directly or through officers of the government. The Supreme Command of Defence Forces also vests in him. The President summons, prorogues, addresses, sends messages to Parliament and dissolves the House of the People (Lok Sabha); promulgates ordinances when Parliament is not in session; makes recommendations for introducing financial and money bills; and gives assent to bills, grants pardons, reprieves, respites and remissions of punishments or suspends, remits or commutes sentences in certain cases.

Appointments: The judges of the Supreme Court and the High Courts, the Attorney-General of India and the Comptroller and Auditor-General of India are all appointed by the President. The heads of States, *i.e.*, Governors are also appointed by the President.

The President has the power of appointing ambassadors abroad and receiving diplomatic representatives of foreign States.

Council of Ministers: Is headed by the Prime Minister to aid and advise the President in the exercise of his functions. The Prime Minister is appointed by the President who also appoints ministers on the advice of the Prime Minister. The Council holds office during the pleasure of the President and acts on the principles of joint responsibility. The Prime Minister has to communicate to him all decisions of the Council of Ministers and, if the President desires, submit for consideration of the Council of Ministers any proposal of a Minister not yet considered by the Council.

Emergency: If the President is satisfied that a grave emergency exists, and the security of India or any part thereof is threatened either by war or internal disturbance, he may make a Proclamation of Emergency which must be approved by both the Houses of Parliament before the expiration of two months, otherwise it ceases to operate at the end of that period. While a Proclamation of Emergency is in operation (*a*) the Union will have power to give directions to any State as to the manner in which the States' executive power is to be exercised. (*b*) Parliament will have power to legislate on items included in the State list. (*c*) The Fundamental Rights guaranteed by Art. 19 are virtually suspended. (*d*) As regards other Fundamental Rights, the President may, by a specific order, declare that the right to move any court for its (their) enforcement may be suspended during the period of Emergency. The President may proclaim a failure of constitutional machinery in a State if he learns that the Government of the State cannot be carried on according to the provisions of the Constitution.

Financial Emergency: If the President is satisfied that the financial stability of the country is threatened he may, by a Proclamation, make a declaration and in consequence the executive authority of the Union is considerably extended and it is empowered to take suitable action.

Impeachment: Provision is made for the impeachment of the President, by Parliament, for violation of the Constitution. If such a resolution is passed by a majority of not less than two-thirds of the total membership, such a resolution has the effect of removing the President from office.

Vice-President: There is a Vice-President of India, who is ex-officio Chairman of the Rajya Sabha (the Upper House). The Vice-President acts as President during a casual vacancy in the office of the President. He is elected by the members of both Houses of Parliament and his term of office is five years.

UNION PARLIAMENT: The Parliament consists of the President and two Houses known as the Lok Sabha and the Rajya Sabha. It must meet at least twice a year. The maximum strength of the two Houses is fixed at 250 (12 nominated) for the Rajya Sabha and 525 for the Lok Sabha (not more than 500 from the States and 25 from the Territories).

Elections: The Rajya Sabha is elected by the elected members of the Legislative Assemblies of the States and of the Union Territories. While the Lok Sabha is elected directly by the voters in the country.

The Rajya Sabha is a permanent body with one-third of its members retiring every second year. The Rajya Sabha has a Chairman and Deputy Chairman.

Ordinarily the Lok Sabha has a duration of five years. There is a Speaker and a Deputy Speaker of the House both of whom are elected by its members.

All these posts carry salary and allowances.

Immunity for M.P.s: Members of Parliament are assured of freedom of speech in Parliament subject to the provisions of the Constitution. They enjoy immunity from proceedings in any court in respect of anything said or a vote given by him in Parliament.

Under certain circumstances, the members can be disqualified and their seats declared vacant.

Legislation: A Bill normally goes through the following stages. It is first published. After introduction there is a general debate. Then, there is a clause-by-clause discussion and voted upon. A specially important measure may go before a select committee or a joint select committee. A Money Bill has a slightly different passage. After it has been passed in the Lok Sabha it is sent to the Rajya Sabha which has to return it within fourteen days with its recommendations which may be accepted or rejected.

Quorum: The quorum is fixed at one-tenth of the membership of the House.

The language used in Parliament is either Hindi or English.

Distribution of Seats: (Please see chapter on Rajya Sabha and Lok Sabha).

Committees: Parliament's control over the administration is also exercised through a series of committees.

The committees can summon witness or require documents to be produced. There is a **Committee on Privileges** which sees to breaches of Parliamentary privilege, and a **Business Advisory Committee** which helps the Ministry of Parliamentary Affairs in drawing up the programme for a session.

Two very important Committees are the **Public Accounts Committee** and the **Estimates Committee.** They are elected by the House of the People and Ministers are barred from membership. The Public Accounts Committee ensures that money is spent for the purpose for which Parliament has voted it. The Estimates Committee examines possibilities of economy and reform in financial administration and the manner in which estimates may be presented to Parliament

Comptroller and Auditor-General is appointed by the President to control, on behalf of the Union and the States, all disbursements and to audit all accounts of moneys administered by the Parliament and the State legislatures.

STATE GOVERNMENT : The system of Government in the States closely resembles that of the Union.

The 21 States have Governors as their heads, the Union Territories of Andaman & Nicobar Islands and Chandigarh have Chief Commissioners, Delhi, Goa, Mizoram and Pondicherry have Lieutenant-Governors, Lakshadweep, and Dadra & Nagar Haveli have Administrators.

Types of Legislatures: Seven States, Andhra Pradesh, Bihar, Jammu & Kashmir, Karnataka, Maharashtra, Tamil Nadu, Uttar Pradesh have two Houses of Legislature; the others, only one. The two Houses are called the Legislative Assembly (sometimes Vidhan Sabha) and the Legislative Council (sometimes Vidhan Parishad). The former has a duration of five years, while the latter is a permanent body with one-third of the members retiring every second year.

Membership Strength: The minimum strength of an Assembly is 60 and the maximum 500. The minimum strength of a Council is 40, and the maximum one-third of the State Assembly

Elections: An Assembly is elected directly on the basis of adult franchise with reservation of seats for the Scheduled Castes and Tribes. The composition of a Council is more complicated. About a third are elected by the Assembly, another third by local authorities (municipalities, district boards), about a twelfth by registered teachers in schools not lower than the secondary school standard, and about a twelfth by registered graduates of not less than three years' standing. And the rest are nominated by the Governor from among persons who have distinguished themselves in art, science, literature, co-operation and social service.

Administrative Units: The principle unit of administration in a State is the district under a Collector and Magistrate. A Collector is responsible to a Commissioner who heads a Division or to the Board of Revenue depending upon the practice of a particular State. A District Magistrate is responsible for the maintenance of law and order and leads the district police force.

Official Language: Article 343 of the Constitution provides that the official language of India shall be Hindi in the Devnagri script and the form of numerals for official purposes shall be the international form of Indian numerals. English, which was originally to continue as the official language upto January 26, 1965, will, under the Official Languages Act, 1963, continue to be used even after that in addition to Hindi.

Amendment of Constitution: For purposes of amendment the items are divided into three classes with a different procedure for each class.

For amendment of the provision with respect to the Supreme Court and the High Courts, the distribution of legislative powers between the Centre and the States, the representation of the States in Parliament, etc., the amendment must be passed by both the Houses of Parliament by a majority of the total membership of the House and by a majority of two-thirds of the members present and voting, and must further be ratified by the legislatures of not less than one-half of the States.

In other cases no reference to the State legislatures is necessary. Parliament by itself can amend the Constitution in the manner mentioned above. In some cases amendment can be effected even by a bare majority such as is required for the passing of any ordinary law. The Supreme Court in Golaknath case (Feb. 1967) laid down that Parliament has no power to curtail fundamental rights.

Parliament has amended the Constitution whenever it has found that judicial decisions, either inadequately or in its opinion erroneously, interpreted the intention behind the relevant Constitutional provisions or they pointed out certain lacunae in them.

Some of the important Articles modified by Amendments: Arts. 15, 19, 31, 31A, 66, 71.

Second : To avoid a constitutional irregularity in delimiting the constituencies for the purpose of readjustment of representation in the Lok Sabha .

Third : To amplify Entry 33 of List III in the Seventh Schedule to the Constitution so that the Centre is not divested of all legal powers to control production, supply and distribution of food stuffs and cattle product.

Fifth and Seventh : To implement the scheme of States Reorganisation.

Tenth : To include Dadra and Nagar Haveli in the Union Territories.

Eleventh : To clarify that the election of the President or Vice-President cannot be challenged on the ground that there are vacancies in the appropriate electoral college for whatever reasons. It had happened that when the notification for the election of President was issued in 1957, elections in certain snow-bound areas in the North had not been completed.

Twelfth : To include Goa, Daman and Diu with effect from 20th December, 1961 in the list of Union Territories,

Thirteenth : To give effect to an agreement reached by Government of India with the leaders of the Naga Peoples Convention regarding formation of a new State of Nagaland.

Fourteenth : To give effect to the ratification of cession by the Government of France under which the former French establishments became parts of the Indian Union.

Fifteenth : To provide for certain matters pertaining to the service conditions of judges, enlargement of jurisdiction under Article 226.

Sixteenth : To prescribe the forms of oath to be taken by every candidate for membership of Parliament and other functionaries.

Eighteenth : To remove doubts regarding the meaning of the word 'State' vis-a-vis a Union Territory.

Nineteenth : To give effect to the recommendation of the Election Commission.

Twentieth: To validate the judgements, decrees, orders and sentences passed by District Judges in Uttar Pradesh whose appointments were rendered invalid or illegal.

Twentyfirst : To include Sindhi in the Eighth Schedule to the Constitution as recommended by the Commissioner for Linguistic Minorities.

Twentysecond : To provide for the formation of an autonomous State within the State of Assam.

Twentyseventh : To provide for the establishment of a legislature and council of ministers for the Union Territory of Mizoram and Arunachal Pradesh.

Twentyninth and Thirtyfourth : To add certain Acts in the Ninth Schedule to the Constitution.

Thirtyfirst : To effect minor changes about reservation of seats.

Thirtysecond : To insert Article 371D and 371E to implement the six point formula in respect of the State of Andhra Pradesh.

ADMINISTRATION OF JUSTICE : All the courts of the country constitute a single hierarchy with the Supreme Court at its head and within their respective territorial and pecuniary jurisdictions, administer the laws enacted by Parliament or State legislatures.

Supreme Court : The Supreme Court of India consists of a Chief Justice and not more than 13 judges appointed by the President.

Retirement: At the age of 65.

Qualifications: For appointment as a judge of the Supreme Court a person has to be a citizen of India and must have been for at least 5 years a judge of a High Court or of two or more such courts in succession; or an advocate of a High Court or two or more such courts in succession for at least 10 years; or, he must be in the opinion of the President an eminent jurist.

Removal: A judge of the Supreme Court cannot be removed from office except by an order of the President passed after an address by each House of Parliament, supported by a majority of the total membership of that House voting, has been presented to the President in the same session for such removal on the ground of proved misbehaviour or incapacity.

Present Strength of the Supreme Court is a Chief Justice and 11 Judges.

Jurisdiction: The Supreme Court has both original and appellate jurisdiction. Its exclusive original jurisdiction extends to all disputes between the Union and one or more States or between two or more States *inter se.* In addition to this, Article 32 of the Constitution gives an extensive original jurisdiction to the Supreme Court to enforce fundamental rights guaranteed under Part III of the Constitution.

Appellate Jurisdiction: The Supreme Court can be invoked by a certificate of the High Court concerned or by special leave granted by the Supreme Court, in respect of any judgement, decree or final order of the High Court in cases involving substantial questions of law as to the interpretation of the Constitution.

Civil Appeals: Also lie to the Supreme Court where the amount, or value of the subject matter of the dispute, is not less than Rs. 20,000 or where the judgement, decree or final order involves claims, respecting property of like amount, or where the High Court concerned certifies that the case is a fit one for appeal to the Supreme Court.

Criminal Cases: The right to appeal to the Supreme Court has been provided for "if the High Court (*a*) has on appeal reversed an order of acquittal of an accused person and sentenced him to death; (*b*) has withdrawn for trial before itself any case from any court subordinate to its authority and has in such trial convicted the accused person and sentenced him to death; or (*c*) certifies that the case is a fit one for appeal to the Supreme Court." Parliament is authorised to confer on the Supreme Court any further powers to hear and entertain appeals from any judgement, final order or sentence in a criminal proceeding of a High Court in Indian territory.

High Court : Every state has a High Court of its own except in the case of Assam and Nagaland and Punjab and Haryana who share one each between them. Delhi has a High Court of its own.

Appointment: High Court judges are appointed by the President after consulting the Chief Justice of India, the Governor of the State and the Chief Justice of the High Court. They retire at the age of 62.

Qualifications : To be appointed a person has to be a citizen of the country who has either held judicial office or practiced as an advocate for 10 years in any State.

Removal: Article 124 (4), which lays down the procedure for the removal of a Supreme Court judge, applies to the High Court judges also.

Jurisdiction: The jurisdiction as well as the laws administered by a High Court can be altered both by the Union and State Legislatures. Certain High Courts, like those at Bombay, Calcutta and Madras, have Original and Appellate jurisdictions. Under the Original jurisdiction suits, where the subject matter is valued at Rs. 25,000 or over, can be filed directly in the High Court. Under the Appellate jurisdiction only appeals from lower courts and Appeals from suits, filed on the Original side of the High Court, can be entertained. Most High Courts have only Appellate jurisdiction.

Subordinate Courts : Except for minor variations, the structure and functions of the subordinate courts are uniform throughout the country. A state is divided into a number of districts, each under the jurisdiction of a principle civil court presided over by a District Judge. Subordinate to a District Judge is a hierarchy of different grades of civil courts.

The constitution and organisation of criminal courts and their procedure are regulated by the Code of Criminal Procedure 1898, as amended from time to time. In every district there is a District Magistrate and under him a number of subordinate magistrates of various grades sitting at various places. These Magistrates try and dispose of cases involving a sentence not exceeding imprisonment for two years.

Sheriffs: Are attached to the High Courts of Bombay, Calcutta and Madras.

There are Official Assignees in three States — Maharashtra, W. Bengal and Tamil Nadu. The appointment is made by the Chief Justice of the High Court concerned.

In addition to the Official Assignee, a Deputy Official Assignee may also be appointed. Another officer of the court is the Insolvency Registrar who may be vested with the powers mentioned in section 6 of the Presidency Towns Insolvency Act.

Social Reforms Acts: Parliament has passed two important Acts relating to social reform. The Suppression of Immoral Traffic in Women and Girls' Act (No. 104 of 1956) was passed in December 1956. This Act provides, in pursuance of the International Convention signed at New York on 9th May 1950, for the suppression of immoral traffic in women and girls. The Women's and Children's Institutions Licensing Act (No. 105 of 1956) was passed in December 1956. This Act provides for the licensing of such institutions and of matters relating to them.

Yet another Act in social reform is the Probation of Offenders Act (20 of 1958).

Dowry Prohibition Act was passed in 1961.

Public Provident Fund Act was passed in 1968.

PHYSIOGRAPHY

THE vast size of India needs no stressing. Reaching from 8° 4′ to 37° 6′ North latitude, and from 68° 7′ to 97° 25′ East longitude, it measures some 3,220 km. from south to north and some 2,980 km. from west to east, and covers an area of 3,276,141 sq. km. (including Sikkim).

Physical Features : India is built on a grand scale. Its physical features fall into three well-marked regions, each of them vast in dimensions : first, the great Himalayan mountain system ; secondly, the Indo-Gangetic plain ; and thirdly the plateaux of peninsular India, the Deccan.

The Himalayan system lies between the plateau of Tibet and the Indo-Gangetic Plain, and consists essentially of a complex series of young fold-mountains arranged in more or less parallel ranges which now combine in a mountain-knot, then divide to leave room for intermont valleys like those of Kashmir and Kulu. The highest range, the Great Himalaya, consists of a whole series of giant peaks like Nanda Devi (24,645 feet), separated by deep chasms cut by rivers and glaciers and, occasionally, by high passes over which run the immemorial trade-routes between India and Tibet. South of the Great Himalaya lie other high ranges, and nearest to the plains there are the Sivaliks, the youngest member of the series geologically, which present a massive rampart to the south, broken only by valleys through which run great snow-fed rivers like the Sutlej (a tributary of the Indus), the Yamuna and Kosi (tributaries of the Ganga) and the Ganga itself. At the eastern-most end of the Indian Himalaya the ranges are breached in a spectacular gorge by the Brahmaputra, which rises in Tibet. East and south of the Brahmaputra gorge, the fold-ranges trend generally southward, and form the wild hilly country of Nagaland and other areas on the frontiers of India and Burma.

The Indo-Gangetic Plain occupies what must once have been a hollow between the Himalayas and the old-rock plateaux of the peninsula ; a hollow that has been infilled by alluvium brought down by the great Himalayan rivers and, to a lesser extent, by those flowing into it from the Deccan, like the Chambal and Sone. If one includes the level ground along the Brahmaputra in Assam, the Plain as a whole is over 2,400 km. long, and generally 200-300 km. wide (rather narrow in Assam). Here is one of the world's really large Plains. To the casual observer it is one great monotony, but actually it has considerable variety, of two kinds : first, the gradual transition from the dune-covered desert-plain of Rajasthan, through the rich, cultivated alluvium of Uttar Pradesh to the swampy Sundarbans along the seaward edge of the Bengal delta ; and, secondly, more intimate local variety — for example, the contrast of deeply-gullied terraces of old alluvium and of low-lying flood-plain where the Chambal runs into the Yamuna below Agra.

The dominant landform in the Deccan (that is, in peninsular India) is the plateau, the great stretch of rolling country at some considerable elevation above sea-level. Such is the Maidan of Karnataka or the black-earth plateau of Malwa (or the detached plateau which forms Meghalaya). Most of these plateaux, indeed, almost all of the Deccan, are built of hard old crystalline rock, with here and there ancient sediments. Here lies most of India's mineral wealth, especially iron and manganese ore (with coal in down-faulted basins in the north-east Deccan). In Maharashtra there was a great outpouring of basalt which overlies the crystalline base and gives rise to characteristic stepped landforms. Across the plateaux roll the great east-flowing Deccan rivers, the Mahanadi, Godavari, Krishna and Kaveri, with their tributaries. Each forms a notable delta where it reaches the sea. The Narmada and Tapti, on the other hand, flow westward to the Gulf of Cambay north of Bombay. The great plateaux end in massive mural scarps like those overlooking the Indo-Gangetic Plains or the even more impressive Western Ghats (the so-called Eastern Ghats are puny, broken things in comparison). There are also scarps with the appearance of mountain ranges where one plateau-level descends to another within the Deccan.

Climate : The vastness of India and the variety of its relief are reflected in the wide range of climatic types to be found within it. In the Plains, the desert of Rajasthan contrasts with the humidity of Bengal. The winter snows of the Himalaya contrast with the nearly equatorial heat of Kerala and Tamil Nadu. The last two contrasts with each other, for Kerala is wet, with a short dry season, and Tamil Nadu is dry, with a long dry season when much of India is having rain, during the south-west monsoon.

If one seeks a unifying factor in the climate of India, it is to be found in the dominance of the monsoon : that is, in a great seasonal reversal of wind and weather. For most of India except Tamil Nadu, the south-west monsoon of about June to September is a period of rain, very heavy in Bombay and Calcutta, torrentially heavy in Meghalaya (where Cherrapunji has the reputation of being the earth's wettest spot), light by the time Delhi is reached, even lighter (and highly variable) in the desert. The north-east monsoon of 'winter' is a period of dry weather over most of India except Tamil Nadu, which then has its rainy season ; and of cold weather, becoming hot as the south-west monsoon season approaches, in north India.

Vegetation and Soils : Most of India must once, it is thought, have been covered with forest whose nature reflected principally variations in rainfall (or of altitude in the Himalaya) : forest that ranged from tropical rain forest in Kerala through tropical moist deciduous forest in the eastern Plains and north-east Deccan to thorn scrub in semiarid interior Maharashtra. Forest reserves to some extent preserve this pristine vegetation, though usually in a form modified by man, acting as a destructive agent (for instance, turning thorn forest to poor savana-jungle) or as a constructive agent (replacing 'natural' vegetation with pure strands of desired species like sal or sandal-wood). In the Plains, the east coast deltas and western coastal strips, in Tamil Nadu and much of Maharashtra, little 'natural' vegetation of any sort survives.

Human activity over the centuries (indeed, for millennia) has replaced 'natural' vegetation with crops : the kharif rice and rabi wheat of much of the Plains (and, of course, other crops beside, like sugar-cane and mustard) ; the jowar and bajra of the drier parts of the Deccan, except where irrigation has brought in wheat, or rice, or sugar-cane ; the tea of Assam ; the tea and coffee of Kerala and of the hills north of it ; the coconut of the coastal fringes of the South. So, too, the teeming wild life of India, dependent as it is on forest cover, has been fighting a losing battle against man. There is now concern over the survival of a number of species, notably the lion (confined to the Gir forest in Saurashtra), the tiger, the elephant and the rhinoceros. But a number of species of deer are still relatively common, and bird life is generally abundant.

Population (also see Chapter on Population) : India is the world's second most populous country. The 1971

Census indicate the total population was 547,949,809, an increase of 24·57 per cent since the 1961 Census. It is not surprising that, although there are great variations between one region and another, pressure of population on the land has become excessive, especially in the Plains, the east coast deltas and Tamil Nadu.

STATES, TERRITORIES : The country is divided into 21 States and 9 Union Territories.

The 21 States (with the capital towns in brackets) are :

Andhra Pradesh (Hyderabad), Assam (Shillong), Bihar (Patna), Gujarat (Gandhinagar), Haryana (Chandigarh‡), Himachal Pradesh (Simla), Jammu and Kashmir (Srinagar), Kerala (Trivandrum), Madhya Pradesh (Bhopal), Maharashtra (Bombay), Manipur (Imphal), Meghalaya (Shillong), Karnataka (Bangalore), Nagaland (Kohima), Orissa (Bhubaneshwar), Punjab (Chandigarh‡), Rajasthan (Jaipur), Tamil Nadu (Madras), Tripura (Agartala), Uttar Pradesh (Lucknow), West Bengal (Calcutta).

The 9 Territories (with capital towns in brackets) are :

The Andaman and Nicobar Islands (Port Blair), Arunachal Pradesh (former NEFA) (Yachuli), Chandigarh‡ (Chandigarh), Dadra and Nagar Haveli (Silvasa), Delhi (Delhi), Goa, Diu and Daman (Panaji), Lakshadweep (former Laccadive, Minicoy and Amindivi Islands (Kavaratty Island), Mizoram (Aizawl), Pondicherry (Pondicherry).

SOME BASIC FACTS: Date of Independence 15-8-1947. Became a Republic on 26 -1-1950.

Area : 3,276,141 sq. km.

Length : 3,119 km (North-South).

Breadth : 2,977 km (East-West).

Land Frontier : 15,168 km ; Frontiers with Pakistan : 2,966 kms. ; with Bangla Desh : 3,950 kms. ; with China 3,862 kms. ; with Nepal : 4,390 kms.

Coastline : 5,689 km.

Important Rivers : Ganges, Yamuna, Luni, Ghaghara, Kosi, Godavari, Chambal, Betwa, Sone, Brahmaputra, Krishna, Mahanadi, Narmada, Kaveri, Tapti and Pennar.

Minimum Rainfall : Thar Desert 101·60 mm (4 inches).

Maximum Rainfall : Cherrapunji 10,795 mm (425 inches).

Minimum Temperature : Kashmir 9·4°C (49°F).

Maximum Temperature : Rajasthan 48·9°C (120°F).

Population : 547,949,809 (1971).

Growth Rate : 24·57 per cent (1971).

Expectancy of Life at Birth : 52·6 years (M. 53·2 years; F. 51·9 years).

Death Rate : 14 per 1,000.

Infant Mortality Rate : Male 120, Female 113.

Most Populated State: Uttar Pradesh 88,341,144.

Largest Populated City: Greater Calcutta 7,005,262.

Literacy Rate : 33 per cent.

Most Literate State : Kerala (46·8 per cent).

Largest State : Madhya Pradesh 443,462 sq. km. (171,221 sq. miles).

No. of States : 21.

No. of Districts : 358.

No. of Villages : 550,000 (approximately).

Languages : 15 (provided by the Constitution). Assamese, Bengali, Gujarati, Hindi, Kannada, Kashmiri, Malayalam, Marathi, Oriya, Punjabi, Sanskrit, Sindhi, Tamil, Telugu, Urdu.

Dialects Spoken : 720.

A TOURIST'S GUIDE

INDIA has three major seasons : winter, summer and the monsoon.

The winter months (November-February) are pleasant throughout India with bright sunny days. In the northern plains, the minimum temperature at times drops steeply and there is snowfall in the hills. In Maharashtra and the south and in eastern India, however, December and January are pleasantly cool, never really cold.

The summer months (April–June) are hot in most parts of India, and it is during this season that hill resorts such as Simla, Mussoorie, Naini Tal, Kulu and Kashmir Valleys, Darjeeling, Shillong, Ootacamund, Kodaikanal, Pachmarhi and Mount Abu provide cool retreats. (See ' 'Meteorology " for average temperatures and rainfall.)

The south-west monsoon usually breaks about the beginning of June on the west coast and reaches elsewhere later. With the exception of the south-eastern areas, India receives the major share of its rainfall between June and September. The south-eastern areas receive most of the rainfall from the north-east monsoon between November and January.

Clothing : In northern India, where evening and night temperatures drop steeply in winter, woollen clothing will be necessary from the middle of November to the middle of February. Winter in other parts of the country is mild and tropical clothing should be sufficient. For those visiting the hill resorts during this time heavy woollens will be essential.

During the summer months, only light tropical and cotton clothing will be comfortable. Visitors to the hill resorts, however, should carry light woollens.

Medical Facilities : In all the cities and towns there are State-managed and private hospitals and dispensaries. The services of highly qualified specialists and consultants are available in places like Delhi, Bombay, Calcutta, Madras and other large cities. Some of the chemists offer round-the-clock service. (See " Hospitals " in general index for full list.)

Foreign Exchange: Under the revised rules of the Government of India all foreigners, including those of Indian origin, are required to pay their hotel bills in foreign currency. For details please enquire at nearest Government of India Tourist Office.

The official rates of exchange are as follows : £1 equal to Rs. 18·08 ; U.S. $1 equal to Rs. 7·80. The actual buying and selling rates, however, differ slightly from these rates.

Indian Currency : No Indian currency can be brought in or taken out of the country except rupee travellers' cheques.

Time : The Indian Standard Time (IST) is 5½ hours ahead of Greenwich Mean Time (GMT) and Central European Time, and 11½ hours ahead of the United States Time.

Electric Current : Voltage in most places is 220–240 A.C., 50 cycles, though a few areas have D.C. supply as well. The tourists are advised to check the voltage before using an electric shaver or other electrical gadgets.

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‡ The Union Government announced on January 29, 1970 its decision to transfer the capital project area of Chandigarh to Punjab within the next five years. Pending the construction of a new capital for Haryana, Chandigarh will remain a Union Territory.

TOURIST INFORMATION: The main tourist offices in India are: (1) Govt. of India Tourist Office, 88, Janpath, New Delhi-110001; (2) Govt. of India Tourist Office, 123, M. Karve Road, Churchgate, Bombay-400020; (3) Govt. of India Tourist Office, 4, Shakespeare Sarani, Calcutta-700016; (4) Govt. of India Tourist Office, 35, Mount Road, Madras-600002.

Overseas Tourist Offices: (1) Govt. of India Tourist Office, 19, East 49th St., New York, N. Y. 10017 (U.S.A.), (Tel. Mu8-2245); (2) Govt. of India Tourist Office, 685, Market St., San Francisco, Calif. 94105 (U.S.A.) (Tel. 397-0066); (3) Govt. of India Tourist Office, 201, North Michigan Ave., Chicago, Ill. 60601 (U.S.A.) (Tel. 236-6899 & 236-7870); (4) Tourist Promotion Officer, 1020 N.E. 165th Terrace, Miami, Florida 33162 (U.S.A.); (5) Tourist Promotion Officer, Ken St. Bookline, Mass. 02146 (U.S.A.); (6) Tourist Promotion Officer, 1900, South Ends St., Crystal House, Arlington 22202 (U.S.A.); (7) Tourist Promotion Officer, 1270, Astor Drive, Ann Arbor, Mich. 48104 (U.S.A.); (8) Tourist Promotion Officer, 1222, Taylor Avenue, Seattle, Washington 98109 (U.S.A.); (9) Govt. of India Tourist Office, Suite 1016, Royal Trust Tower, P. O. Box 342, Toronto-Dominion Centre, Toronto, (Canada) (Tel. 362-3188); (10) Govt. of India Tourist Office, 21, New Bond St., London W.I. (U.K.) (Tel. 493-0769); (11) Govt. of India Tourist Office, Pearl Bldg., 1, 9-18, Ginza, 7, Chome Chuoku, Tokyo (Japan) (Tel. 571-5062); (12) Office National Indien de Tourisme, 8, Boulevard de la Madeleine, Paris de France (Tel. 073-00-84 & 265-83-86); (13) Govt. of India Tourist Office, Carlton Centre, 55, Elizabeth St., Sydney, N.S.W. (Australia) (Tel. 281604); (14) Indisches Verkehusburo, Kaiser Strassee 77-III, 6, Frankfurt/Main (West Germany) (Tel. 232380 & 232396); (15) Office National Indien de Tourisme, 1-3, rue-de-Chantepoulet, Geneva (Switzerland) (Tel. 321813); (16) Office National Indien de Tourisme, 60, Ravenstein, Brussels (Belgium) (Tel. 11-17-96); (17) Indian National Tourist Office, Sveavagen 9-11, Box 40016, 103 41 Stockholm 40, Sweden (Tel. 21-50-81); (18) Govt. of India Tourist Office, Via. Albricci-9, 20122, Milano, (Italy) (Tel 804952); (19) Govt. of India Tourist Office, 9, Ming Centre, Clemenceau Ave., Singapore 9 (Tel- 28989); (20) Staatlichee Indichee Veikehrsburo, C/o Air India, Room 229, Opening staircase E, 1010, Vienna, Austria (Tel. 57-21-47).

ACCOMMODATION: See "Hotels" in general index for full list.)

There are modern western-style hotels in all large cities as well as at popular tourist centres. These have been classified on the internationally accepted star system. Hotel charges in India are moderate compared to those of many other countries.

At tourist centres where hotel accommodation is not adequate, there are travellers lodges/tourist bungalows constructed and run by the India Tourism Development Corporation, a Government of India Undertaking, or by the State Governments which offer comfortable lodging and meals.

House boats fully furnished and staffed are moored to the banks of the river Jhelum and Dal and Nagin lakes in Kashmir and are known for their comfort and convenience.

Many centres of tourist interest in India are situated in out-of-the-way places. At most of these tourist centres there are Government owned rest houses (semi-hotel establishments) where tourists can stay. These are all close to national highways and convenient for tourists travelling by road. It is advisable to make reservations in these rest houses sufficiently in advance.

Youth Hostel accommodation is generally available in the hostels of schools and colleges in most places of tourist interest during vacations only, in summer from May to July and in winter during December. However, there is a Youth Hostel in Delhi open throughout the year. The only organised camping facilities exist in New Delhi at the Bharat Scouts and Guides ground, Near Humayun's Tomb, New Delhi.

The Department of Tourism, Government of India have constructed Youth Hostels at: Amritsar; Aurangabad; Bhopal; Dalhousie; Darjeeling; Gandhinagar; Hyderabad; Jaipur; Madras; Nainital; Panaji; Panchkuva; Patnitap; Puri; Trivandrum.

Details for all these accommodations can be had from any of the Government of India Tourist offices.

TIPPING: There are no set rules for tipping in India. Most hostels in India add 10 to 12½ per cent as service charge to bills. There is no service charge in Government rest houses. However, the visitor may tip at his discretion. For taxis also, tipping is not a common practice and is discretionary.

MODE OF TRAVEL TO INDIA: The overland route from Europe to India passes through France, Germany, Yugoslavia, Bulgaria, Turkey, Iran and Pakistan-Hussainiwalla. On the Indo-Pakistan border, 26 kms from Amritsar, is the only check-post called Attari.

There is also a rail-cum-sea route to India. Rail connections are available from European countries to Turkey and then to Basra (Iraq). From Basra, there are regular sailings to Bombay.

Travel within India: The Indian Airlines network of services connects more than 70 cities including many centres of tourist attraction. (See air route map at the end of the book.)

The railways in India go almost everywhere and offer concessional fares to tourists for round trip travel in India.

Motoring in India: Tourists who wish to travel by automobile can obtain full information regarding road conditions, driving regulations, driving licences, 'Triptyque' and 'Carnet', from the recognized Automobile Associations listed below. Private taxis or luxury tourist taxis can be hired (See "Tourist Taxis" in general index for list of firms) though self drive cars are not available in India.

(1) The Automobile Association of Upper India, (behind Hindustan Times Bldg.), Lilaram Bldg., 14-F, Connaught Place, New Delhi 110001 (Tel. 42063; (2) Western India Automobile Association, Lalji Naranji Memorial Bldg., Churchgate, Bombay 400020 (Tel. 291085); (3) Automobile Association of Eastern India, 13, Ballygunj Circular Rd., Calcutta-700019 (Tel. 475131); (4) Automobile Association of South India, 38A, Mount Rd., Madras-600006 (Tel. 86121/2/3); (5) U. P. Automobile Association, 32A, M. Gandhi Rd., Allahabad 211001 (Tel. 2445).

Insurance: A third party insurance is compulsory for all motor vehicles which are in use. The insurance must be with a company registered in India.

Traffic circulation is on the left and the price of petrol is Rs. 3·27 per litre (4·5 litres are equivalent to one gallon, approximately) in Bombay, even though the prices vary from place to place, and lubricating oil is approximately Rs. 10·50 per litre.

Visa: Every foreign tourist entering India should be in possession of a valid passport issued by his Government, and tourist visa from the Indian representative abroad (or the British representative in countries where there are no Indian representatives). Commonwealth citizens (except those of Uganda, Kenya, Republic of Ireland, Sri Lanka, British subjects, British protected persons and missionaries), Nationals of Norway, Sweden, Denmark and Finland, Yugoslavia, Bulgaria and West Germany are exempt from the visas requirement for a period of 90 days provided their passports are valid for travel to India. Persons of non-Indian origin domiciled in South Africa are, however, required to obtain visa for India.

Tourists who arrive without a visa may be allowed by the Immigration Authorities at the port of arrival to land and stay in India for a period of upto 28 days provided they are holding tickets for their outward journey from India. Such permission, which will be available for air and sea passengers, may also be made valid for departure from India from a port other than the port of entry. Collective landing permits may also be issued to tourists travelling in organised groups. Temporary landing permits are not issued to tourists entering India by road and to nationals of certain countries.

Foreigners who come on visits not exceeding 3 months for recreational or sightseeing purposes or for attending meetings convened by the Government of India or international bodies should, in their own interest, apply for tourist visas. These may be extended for a further period of 6 months. Holders of tourist visas are entitled to the grant of Tourist Introduction Cards which helps them in obtaining All India Liquor Permits and reservation of accommodation in Rest House, Dak Bungalows, Railways, Indian Airlines, etc.

Special Permits : Foreign visitors require special permits to visit certain areas like Darjeeling in West Bengal and Shillong and Kaziranga in Assam. These permits may be obtained either from the Foreigner's Registration Offices at Bombay, Delhi, Calcutta and Madras or from the Immigration Officers at the airport in the above cities. Foreigners who wish to visit Sikkim and Bhutan must apply two months in advance to the Ministry of External Affairs, Sikkim and Bhutan Section, New Delhi.

A foreigner resident in India, who wishes to make short trips abroad of not more than 3 months, can obtain "Return Visas" from the Foreigners' Regional Registration Offices or the State Governments. If the visit abroad is of longer duration "No objection to Return" endorsements can be obtained. Such endorsements are valid for one year in the case of missionaries and 6 months in the case of others and within these periods Indian Missions can issue re-entry visas on the strength of such endorsements.

Registration of Foreigners : No registration is required for foreigners staying in India for 90 days or less provided they have come on visas of 3 months or less. If they land in India with visas for more than 3 months' stay, then they must report for registration within 7 days to the Registration Officer of their destination and present the "B" Form (temporary registration certificate) issued to them at the place of entry.

Commonwealth citizens (other than missionaries) are exempted from registration formalities except British passport holders whose national status is described as British Subject and missionaries, British protected persons and Australian protected persons.

Return visa or double/triple entry visa holders would be required to get themselves registered after 90 days of their actual stay in India and not after 90 days of their first entry into India.

Departures: Tourists, if they are registered, are exempted from reporting their movements. However, all visitors holding registration certificates have to obtain, before departure, exit endorsements from the Registration Officers of the district in which they were initially registered. The Foreigners' Regional Registration Officers can also grant these endorsements to visitors residing within their jurisdiction. Permits have to be surrendered at the Foreigners' Registration Office in the city and not at the airport.

Health Permits : There are no restrictions but it is advisable to take Cholera, Typhoid, Small-pox and Yellow fever innoculations and vaccinations.

Yellow fever areas are Africa and some countries of South America. For passengers coming from or through these areas or by an aircraft which has been to an infected area but has not been disinfected it is essential to have the vaccination to avoid being quarantined for 9 days. The certificate is valid for 10 years 10 days after the vaccination.

Baggage : All baggage is subject to customs examination. Articles of high value *e.g.* radios, cameras, binoculars, type-writers, transistors, etc. are exempted from duty provided they are entered in the re-export declaration form and re-exported within 6 months.

Tourists are allowed to bring into India travellers' cheques or foreign currency notes of any amount subject to declaration on the Currency Declaration Form issued by the customs at the air/sea port or checkpost on the land border.

Additional concessions for tourists: *Sporting Fire-arms:* Not more than three sporting fire-arms brought in by a tourist are allowed free of duty. These must, however, be re-exported.

Cartridges: Each tourist is allowed to bring in 200 (exclusive of 50 allowed duty free) cartridges, on payment of customs duty, but without an Import Licence.

Film : A tourist is allowed to import 25 rolls of film or 48 plates for still cameras and 10 reels of movie films duty free. In addition, the tourist can import 25 rolls or 48 plates and 10 reels on payment of duty but without an import licence. However it is always advisable to check the latest baggage regulations available from the tourist offices or Indian missions abroad.

TRAVEL AGENCIES: *A complete list of Govt. approved Travel Agencies appear under "Services". Please see General Index under "T".*

PLACES OF TOURIST INTEREST IN CENTRAL REGION

Sanchi: It is 45 km. (28 miles) from Bhopal, the Capital of Madhya Pradesh. Sanchi was not directly associated with the life of Buddha, but grew to be an active centre of Buddhism during the time of Ashoka (3rd Century B.C.). The magnificent and relatively well preserved monuments for which Sanchi is famous are all situated atop a hill overlooking woods where "Flame of the Forest" trees bloom fiery red in the summer. The most imposing of the monuments is the Great Stupa (about 150–100 B.C.) — huge semi-circular structure, surrounded by profusely carved gateways and railings depicting scenes from the Buddha's life. In the history of Indian art, the Sanchi stupa occupies a very important place, for it has influenced Hindu and Buddhist sculpture for many centuries that followed.

Khajuraho : Nearly 402 km. (250 miles) south east of Delhi (flying time 2 hrs. 15 mts.) are the erotic temples of Khajuraho in Madhya Pradesh, belonging to about 950 to 1150 A.D. They are ranked among the world's top-most tourist attractions, and represent some of the most exquisite specimens of Hindu architecture and sculpture in medieval India. The carving in the temples still seem to breathe a life and passion of their own and their beautiful proportions, the vibrant texture of the carvings which enrich their walls and their impressive size testify to the glories of the master builders of those days.

GAME SANCTUARIES

Kanha National Park : In the central highlands of India is one of the finest places for seeing Indian swamp deer, chital, blackduck, Indian bison, sambar and various carnivores. There are also nearly a hundred species of birds in this park. It can be reached by a motorable road from Nagpur (273 km. or 170 miles).

Accommodation : Forest rest houses.

Shivpuri National Park : The game preserve of the former rulers of Gwalior State, this 158 sq. km. (61 sq. miles) park is the natural abode of the sambar, chital, nilgai, chinkara and the Indian tiger. It is about 181 km. (70 miles) south of Gwalior.

Accommodation: Shivpuri Hotel, Circuit House and Dak Bungalow.

IN EASTERN REGION

Calcutta : Calcutta was born with the beginnings of the British rule in India and thus has no ancient monuments to talk about. Victoria Memorial which houses the relics of British rule in India, the Indian Museum treasuring the relics of ancient civilization and the Ashutosh Museum displaying Bengali folk art are some of the places worth visiting. The impressive Howrah Bridge leads to the Botanical Gardens and to Belur Math, the seat of the Ramakrishna Mission.

Bodh Gaya : It is the most sacred of Buddhist centres because it was here that the Buddha attained enlightenment under the 'Peepal' tree. A number of monuments were raised at this site in the subsequent centuries. The Mahabodhi Temple, a magnificent structure with a pyramidal tower of nine storeys, 48·75 m. (160 feet) high, contains a colossal gilded image of the Buddha in the earth-touching posture symbolising the event of enlightenment. The temple was probably built in the 4th century A.D. and restored several times subsequently. Bodh Gaya is 11·26 km. (7 miles) by road from Gaya railway station which is connected with Patna by rail (92 km. or 57 miles).

Darjeeling : Hill station in West Bengal lies on the lower slopes of the Himalayas about 600 km. (370 miles) north of Calcutta. It is 2,167·12 m. (7,110 feet) above sea level. From here, one can view the Himalayas in all their majesty, range upon range of perpetual snow culminating in Kanchenjunga (8,578·90 m. or 28,146 ft. high). The quaint Buddhist shrines and monastries, the happy carefree faces of the hill-folk and above all the picturesque scenery all around will abide in the visitor's memory.

The Kanchenjunga can always be seen, while the Everest, the highest peak in the world, is visible only on a clear day. Other favourite walks for the visitor are to Birch Hill and Lebong. The former is a reserve forest with an excellent park. Here the visitor will find oak, chestnut, cherry, maple, birch and alder.

Not far from the Birch Hill Park is the Himalayan Mountaineering Institute which provides training in mountaineering in the Himalayas. Mr. Tenzing Norkay, who climbed the Everest along with Sir Edmund Hillary, is associated with the Institute. The Observatory Hill, above the church, is known to the Buddhists as 'Rdo-rje-gling', 'the place of the Dorje', the mystic thunderbolt of the lamaist religion. It is from this that Darjeeling takes its name. The bazars of Darjeeling are very exciting. There you will find curios, carved wooden boxes, exotic pieces of jewellery, embroidered shawls and art objects. On Saturdays and Sundays, the picturesque hill-folk — Bhutias, Nepalese, Tibetans, Lepchas — throng the market place with their wares and look most colourful.

Darjeeling can be reached from Calcutta by air upto Bagdogra and from there by road (88 km. or 55 miles).

Bhubaneshwar : Orissa's new capital, a metropolis of temples, was built around a sacred lake which was once encircled by some 7,000 shrines. Now only 500 remain in decay, presenting a complete picture of Orissan art and history from the 3rd century B.C. to the 16th century A.D. The great Lingaraj Temple is supposed to be "the finest example of a purely Hindu temple in India". Pilgrims come here for blessings and then take a dip in the sacred lake "Bindu Sagar." This 20th century garden city has many other attractions like the nearby Jain and Buddhist rock cut caves of Khandagiri and Udayagiri. The beautifully preserved Asoka's rock edicts at Dhanli, carved around 260 B.C. narrate the horrors of the Kalinga war and Asoka's acceptance of the path of non-violence.

Puri : About 63 km. (39 miles) by road from Bhubaneshwar is the sacred city of Puri dominating Orissa's sea coast in all its secluded splendour. It is one of the 'Char Dham', the four most holy places of pilgrimage in India, the three others being Badrikedarnath in the north, Rameshwaram in the south, and Dwarka in the west. Every year, in the month of June, as many as two hundred thousand visitors and pilgrims flock to Puri to watch the Car Festival, when the images of the Jagannath ('Lord of the Universe') Temple are taken over a distance of one mile to the garden shrine of Gundicha Mandir. The gigantic car 11 m. (35 ft.) long and 14 m. (45 ft.) high with 16 wheels — each 2·13 m. (7 ft.) in diameter — is used for carrying the deities. It is a unique sight to see thousands of devotees vying with each other to pull the chariot.

Modern Puri has been built more or less along the beach which stretches east to west. The sea is shallow for about a mile from the beach, but the surf breaks with a rare violence on the shore. From early morning the beach is thronged with people who sport or bathe in the roaring but harmless waves.

Konarak : The Sun Temple of Konarak, on the seashore, about 66 km. (41 miles) from Bhubaneshwar is stupendous in proportions and truly amazing in its ornamentation. Standing in lonely splendour among the sand dunes, built in 1250 A.D. and dedicated to the Sun God, the temple is in the architectural image of the mythical chariot of the Sun rushing through the blue heavens. The twelve pairs of wheels of the chariot are the last word in sculptural artistry and the seven horses in front, straining to pull the massive weight, are superbly executed. Intensely lovely are the thousand and one figures — musicians, lovers, couples in embrace, floral designs, the enormous horses and elephants flanking the temple, scenes of the battle and the chase — all masterpieces.

Traveller's Lodge at a short distance from the temple is a very comfortable place to stay in, but tourist prefer to visit Konarak in a one-day trip from Bhubaneshwar.

Chilka Lake : About 96 km. (60 miles) south of Bhubaneshwar is this great lake, famed for its rich bird life and a favourite resort for fishermen. Its scenery is of great natural beauty and many people travel there to watch the ever-changing light at dawn, at noon, at sunset, in winter and in summer, in sunshine and in the rains.

Some of the most attractive aborigine tribes live in the neighbourhood of this lake.

Accommodation : P.W.D. Inspection Bungalow at Barkul which overlooks/the lake.

Hyderabad-Secunderabad : The twin city linked together by the Hussain-Sagar (lake), is the capital of Andhra Pradesh. It is a centre of Muslim culture and learning and the fifth largest city in India. Standing on the banks of the river Musi, it was till 1948 the capital of Hyderabad State of Nizam, one of the richest men in the world. The Salar Jung Museum crammed with curios from all over the world, old manuscripts, costumes and ancient weapons is a living proof of the riches. Trapezoid in shape the city is surrounded by a stone wall. At the junction of wide avenues stand the Char Minar, a stately rectangular white building with four tall minarets often referred to as the "Arc de Triomphe" of the East. It is the famous landmark of Hyderabad and curiously made more famous by a brand of cigarettes of the same name said to be one of the strongest, cheapest and most satisfying kind on the market. To the south of Charminar lies the Chaumahalla Palace and to the west the Mecca Masjid, the principal mosque of Hyderabad. Built entirely of stone and richly decorated in coloured and polished plaster it boasts of an interior that can hold ten thousand worshippers at a time.

The Falaknuma Palace, the Osmania University and the beautifully laid out river gardens are some of the recent additions to the city that blend well with the old.

The tombs situated 8 km. (5 miles) out of the city, are of Qutbshahi kings who ruled in the 16th and 17th centuries. Next to it is the massive Golconda Fort. It is surrounded by a strongly built wall of solid blocks of granite, with eighty-seven bastion at the angles, on which there are still some of the old guns. Now in ruins it was once famous as the diamond mart for the nearby mines.

GAME SANCTUARIES

Jaldapara Sanctuary : This 93 sq. km. (36 sq. miles) area on the river Torsa in North Bengal is the abode of the famed Indian rhinoceros. Swamp and barking deer, sambar, pig and sometimes wild elephants are also seen here. Best months to visit are December to May. The nearest airport is Cooch Behar 100 km. (62 miles), which is connected by air with Calcutta.

Accommodation : Tourist Bungalow.

Kaziranga Sanctuary : Famous as the main stronghold of Indian rhinoceros this 430 sq. km. (166 sq. miles) sanctuary also has elephant, wild buffalo, deer, sambar and many species of water birds. Best visited between December and May. It is 218 km. (135 miles) from Gauhati which can be reached by air from Calcutta.

Accommodation : Forest Inspection Bungalow at Baguri.

Manas Sanctuary : Close to the Himalayas, it is 153 km. (95 miles) west of Gauhati. Besides wild buffalo, elephant, Indian bison, tiger and deer the added attraction is the scenic beauty. Fishing is also possible here. October to May is a good time to visit.

Accommodation : Forest Department Bungalow at Mothanguri.

Note : A special permit is required to visit Kaziranga and Manas Sanctuaries in Assam State. It can be obtained from Assam House, 8 Russell Street, Calcutta-700016, which would take about five to six day's to process. This applies to all regions in Assam and Meghalaya except Shillong.

IN NORTHERN REGION

Delhi : Like Rome, the capital of the Indian Republic, is an 'eternal city', and with a history even more chequered and ancient. In the ancient days, the city shifted its site at least seven times and the ruins of all these townships are still there for anyone to see.

There are today two Delhis — the old city of the Mughals built by Shah Jahan, the Emperor who built the Taj, and the new city built by the British in 1931. While Old Delhi evokes a distinctly oriental atmosphere, New Delhi has wide avenues and imposing office buildings. Both the cities are rich in monuments and mosques; such as the Red Fort, the Jantar Mantar Observatory, Humayun Tomb, the Parliament House, the Rastrapati Bhavan and many more.

Agra : The city of the world famous Taj Mahal has many other historical sites of interest like the fort of the Mughals, the ruins of Fatehpur Sikri — a city built by Akbar — a Mughal Emperor. It also has numerous and fabulous tombs of eminent personalities. Special tourist bus and trains run from New Delhi for a day's journey.

Chandigarh : Now a Union Territory and also the capital of the Punjab and Haryana, the youngest of the Indian capital cities, it is a striking example of modern town planning conceived by Le Corbusier and Maxwell Fry. Advanced styling is adapted to the local climatic needs making it an unique city in the whole of India.

Amritsar : City in the Punjab, is the religious capital of the Sikhs. It was founded in 1577 around a sacred pool, from which the city takes its name "Pool of Nectar". The Golden Temple stands in the centre of this pool. The marble based temple has bronze sides and dome which are heavily covered with pure gold leaf. These reflect the tropical sun into the still waters of the pool, illuminating it and creating an atmosphere of awe and respect. There are a few more of the Sikh and Hindu temples worth seeing, but none surpass the peaceful aura of the Golden Temple.

Almora : In U.P. (133 km. or 83 miles from Kathgodam Railway Station) is the main town in Kumaon Hills. Perched at an elevation of 1,706·88 m (5,600 ft.) it is about two miles in length like a saddle, and is said to have been founded four hundred years ago by Raja Kalyan Chand. Almora has moderate rainfall, temperate climate, the temperature seldom rising above 31°C (88°F), even during the summer days, and comparative freedom from fog. Within easy distance of Almora are many Himalayan peaks — Seehee Debi, Bandnee Debi and Binsar being the chief ones. Binsar Hill also known as Jhandi Dhar is only 21 km. (13 miles) from Almora and the bridle path leading to it, passes through enchanting jungle scenery.

Accommodation : Available at the Government circuit house for which an advance booking has to be made.

Pindari Glacier : Can be reached from Almora at a distance of 120 km. (75 miles) in eight stages, attaining an altitude of 3,963 m. to 4,267 m. (13,000 to 14,000 ft.). The most suitable time for this trip is either May–June or September–October.

Naini Tal : Hill station also in Kumaon Hills, is attractively situated around a mountain lake 1,935·48 m. (6,350 ft.) above sea level. A shady avenue skirts the lake. On either side of the lake rise lofty hills dotted with beautiful villas and bungalows. There are a number of picnic spots around from where one can have a magnificent view of the snow peaked Himalayan mountain range. Nainital District has a chain of lakes lying close to one another, the prettiest amongst them being lake Naini itself. They are a veritable paradise for the angler. Besides fishing, one could also do swimming, yachting, boating, riding, skating and trekking.

Kashmir : The Great Mughals, who were connoisseurs of the good things of life, described Kashmir as 'the earthly paradise'.

Indeed, it is difficult to imagine anything more lovely. It is a vast, rich, green valley criss-crossed by streams and rivulets and encircled by stupendous snow-clad mountains — 'an emerald set in pearls'. Nature has adorned it with lakes of limpid waters, bubbling springs by hill-sides, upland pastures and springy meadows. Clothing the valley is a vast expanse of paddy fields and forests alive with a variety of birds and animals. To enhance its natural beauty, pleasure gardens were laid out by the Great Mughals at many places in Kashmir.

Here you can stay in luxury in a floating hotel called the 'house-boat'; glide gently on the placid waters of the Dal Lake in a shikara; play golf on perhaps the world's highest golf-course; enjoy a variety of water sports; or, if you are adventurous, go trekking or hunting. Also, you can take back home some of the exquisitely embroidered, carved, chiselled or painted handicrafts for which Kashmir is known the world over.

Srinagar : Is a central place from where excursions and pleasure trips to all parts of the valley can be planned. It is itself a picturesque place with lakes, gardens and monuments along the river Jhelum.

Srinagar is an ancient city believed to have been first built by Emperor Asoka in the third century B.C. The Jhelum flows through the heart of the city, dividing it into two parts which are connected by nine bridges. A trip down the river in a swiftly gliding shikara would give the visitor a feel of the city's picturesque balconies, busy ghats, mosques and temples.

Gulmarg : Is about 46 km. (29 miles) from Srinagar, a huge grassy bowl, known for its golf-course. The last 6·4 km. (4 miles) of the journey are covered either by a pony or on foot and, with special permission, by jeep also. At the end of the climb, the visitor is rewarded with a magnificent view of Gulmarg which has numerous walks and picnic spots.

Pahalgam : In the lovely Lidder Valley, about 97 km. (60 miles) from Srinagar is known for its exquisite scenery, springs and streams. It is also the base for treks to higher points like Amarnath and Sheshnag.

Kulu and Kangra Valleys : Well-known for its picturesque landscapes and historic temples, lies in Himachal Pradesh. 33·7 km. (21 miles) from Kangra is the famous temple of Jwala-Mukhi, built up against a rocky cliff. An inflammable gas issues forth from a cleft in the cliff, creating an atmosphere of reverence. Kangra has several tea gardens while Kulu is well-known for the fruit orchards. The winding narrow roads flanked and shaded by pink blossomed apricot trees, huge rhododendrons and blue and purple iris in different seasons lead to the hilltops that look down on a gorgeous alpine scenery. These valleys are favourite vacation places as the summer is never uncomfortably hot and offer sports like golf, tennis, swimming, hiking and trout fishing.

Here the simple and unsophisticated people are a contented lot with few needs and fewer worries. These happy-go-lucky people hold fairs and festivals throughout the year and it would be wise to check and be there on a festival.

Allahabad : (Also called Prayag): City in U.P. situated at the confluence of the Ganga, the Jamuna and the unseen Saraswati. The confluence is the holiest bathing place for Hindus. Every 12 years, Kumbha Mela (religious fair) is held attracting over four million pilgrims during the four weeks. The last one was held in February 1965. A smaller fair occurs every six years — Adha Kumbhi. The old Mughal fort contains an underground temple where well carved images are seen and the pilgrims worship at a small tree taking it to be the Eternal Banyan Tree (Akshaya Vata). 104·6 km. (65 miles) from Allahabad is Kosambi, where the ruins of an ancient capital are being excavated.

Banaras : Now known as Varanasi, is more than a holy city of the Hindus; it represents a way of life. For more than a thousand years this centre of Hindu pilgrimage has lived a rich life haloed by tradition on the banks of the great river Ganga which reaches Varanasi in a graceful curve. For more than a thousand years great masses of people have come here from every corner of the country to receive spiritual sustenance.

The oldest city in the country and perhaps the oldest living city in the world, Varanasi has about 1,500 temples besides countless minor shrines which are thronged with pilgrims all the year round.

Sarnath, a Buddhist centre with many architectural ruins, is about 9·6 km. (6 miles) from Varanasi. The Buddha preached his first sermon here.

Jaipur : Capital of Rajasthan State, it was planned and built by an astronomer-prince in the 18th century, when there were few planned cities even in Europe. "I have seen Jaipur, and now I can die" was how Max Lerner, a famed traveller, felt after having an eyeful of this beautiful pink city. Comparing it with Venice and Paris, he named Jaipur along with them as the three most beautiful cities of the world. But he found something more in Jaipur — a dream quality about the fabric of its delicate gossamer structure, its lattice work and pink terracotta. This picturesque city — a fantasy in stone — set in the heart of Rajasthan is encircled by rugged hills crowned with medieval fortresses reminiscent of the days when the valiant Rajputs fought fierce battles and long drawn out wars to save their beloved land from invading alien hordes. The city palace in the centre of Jaipur is now a museum of Rajput & Mughal miniature paintings, an armoury and rare manuscripts. The Hawai Mahal Palace of the winds — has so many windows with perforated screens that the breeze sweeps through them. Maharaja Jai Singh who built the city in 1727 was also a great astronomer. He built an observatory with instruments of his own design. About 11·2 km. (7 miles) away is Amber palace perched on the slopes of a steep hill and surrounded by a lake. A majestic elephant takes the visitor up the slopes and into this mysterious palace that possesses the world's best chamber of mirrors. Jaipur pottery, brass ware, sculpture, ivory and sandalwood work and jewellery have enjoyed a great reputation from ancient times.

Udaipur : In Rajasthan, is the romantic city of lakes with island palaces. The sprawling marble palaces with coloured glass of amber and pale jade reflect in the steel blue waters of the lake Pichola. Hundreds of green parrots lend colour to the early morning skies. Surrounded by wooded hills the city is aptly called the 'City of Dreams'. The Jag Nivas place with fountains and gardens and apartments with courts, has now been turned into the Lake Palace Hotel and offer the visitor a unique and unforgettable stay.

About 112·6 km. (70 miles) from Udaipur is Chittorgarh. The ruins of this abandoned capital of Mewar speak eloquently of the many grim and glorious deeds of Rajput heroism and sacrifice which have almost become a myth.

Mount Abu : In Rajasthan (3,822 ft. above sea level) is famous for its Dilwara group of Jain temples (11th-13th century A.D.). Having the most intricate and finest marble-carvings in India, these beautiful temples nestle among the lush green mango trees. Hills surround them on all sides and the scenic beauty is very enchanting. Abu is known for its variety of birds and the flowering trees in its jungles. It is reached by rail and road from Ahmedabad.

GAME SANCTUARIES

Corbett National Park : In Uttar Pradesh lying in the beautiful foothills of the Himalayas it is the haunt of tigers, leopards, deers and sambars, also hyenas, jackals and wild elephants. It is 294 km. (183 miles) by road from Delhi. Best time to go there is between January and May.

Chandraprabha Sanctuary : Also in Uttar Pradesh is 72 km. (45 miles) from Banaras. In 1957, it was selected as a suitable new home for the Indian lion and some of them were brought here from the Gir Forest in Gujarat. Nilgai, pig, chinkara, sambar and chital are also found here. Best time to go there is between December and April.

Dachigam Sanctuary : In Jammu and Kashmir State, it consists of Lower and Upper Dachigam, about 20 kms. (13 miles) from Srinagar, where one can still spot the famous but now very rare Kashmir stag. Black bear and pig are also found in this beautiful scenic surrounding.

IN SOUTHERN REGION

Madras : Capital of Tamil Nadu is the gateway to a pleasant land, the city of an ancient civilization exemplified in its many monuments of the past with a rich heritage of culture. Although being carried along on the stream of progressive development yet remaining largely unspoilt, Madras is one of the more attractive cities of India. Perhaps the first claim to fame for Madras is its wonderful foreshore of fine sandy beach stretching from the harbour to the limits of the city at the Adyar river and then beyond for many miles to the south. It is a source of pride to the people, for it is considered to be the second longest beach in the world. There are delightful gardens along its whole length with many varieties of flowers.

Speaking of culture the visitor instantly feels the difference between the rest of India and the south in this city which can be the starting point for an introduction to the Dravidian culture. The many invasions of the aliens never quite reached upto the south and the pureness of this culture remains intact. The temples, the music the dance all vibrate in its original form and one should never leave Madras without seeing a Bharat Natya dance performance. Much of the poses and stances of this dance are depicted in the sculptures of the South Indian temples.

Mahabalipuram : 59·5 kms. (37 miles) out of Madras are some of the ruins of the great Pallava Empire. The shore temple, a little gem of a shrine, stands poised on the very shore, the waves beating against it. The cave temples are store-houses of art. The so-called pagodas are carved out of rocks in the form of temple chariots and are the chief glory of Mahabalipuram.

Conjeevaram (Kanchipuram) : The city of temples, the Banaras of the South, is about 72 km. (45 miles) to the south-west of Madras. The place is divided into three parts, Shiva Conjeevaram, Vishnu Conjeevaram and Pillayar Paliyam, a testimony to the part played by all the main Hindu religious sects in the history of the city.

There are over a thousand temples in all, amongst them is the temple of Kailasnath, believed to be 1,200 years old and contains some excellent 7th and 8th century paintings on the walls. More of these wall paintings are seen in the Vaikunthanath Perumal Temple which is also over 1,000 years old.

It is a one-day excursion trip from Madras, but one can stay at the Traveller's Lodge.

Pondicherry : 167 km. (104 miles) by road from Madras. The atmosphere of a sleepy French provincial town still prevails here. It was returned to India in 1954 after the French rule of 250 years. The main attraction of this place is the ashram of the philosopher Aurobindo Ghose.

Auroville 'the City of Dawn' is being built on the outskirts of Pondicherry. It will be the first 'World City' where any national can have a home.

Kanya Kumari or Cape Comorin : In Tamil Nadu, named from the temple of Kumari (an attribute of Parvati) is at the southern-most tip of the Indian peninsula. Here the Arabian sea and the Bay of Bengal meet the Indian Ocean. According to a legend Siva married the Goddess Parvati, daughter of King Himalaya on the rocks where the temple now stands. Offshore are the two rocks where Swami Vivekananda sat in meditation before he left for the United States. Now on them stands a huge and imposing memorial to the Swami.

Ootacamund : Ooty for short is a hill station in Tamil Nadu. Over 2,286 m. (7,500 ft.) above sea-level, Ooty has a temperate climate. The rainfall rarely exceeds 1,016 mm. (40 in.) so that Ooty has excellent weather throughout the year, and during the season from April to June, it ranks amongst the gayest resorts in India. It reposes in an amphitheatre surrounded by four great hills. On the slopes of the hills are residential and office buildings. At the bottom of the valley enclosed by them is Ooty's artificial lake which could pass for a natural one. Conceived by Sullivan in 1823 and meant for irrigation, it turned out to be so lovely that it was preserved for its sheer beauty. The lake provides facilities for boating and fishing. West of this are the Wenlock Downs — an expanse of undulating springy turf embellished with woods and streams. Here are also the golf-links. These downs are the home country of the Ootacamund Hunt.

The terraced Botanical Gardens, a landmark in Ootacamund, were laid out by an expert from London's Kew Gardens, over a century ago. It has many rare trees and flowering plants. Ooty's flower, fruit and vegetable shows are attended by people from all over the Nilgiris, and here the fashionable jostling with the tribal folk present a colourful spectacle.

Kodaikanal : Famous hill station on the Palni Hills in Tamil Nadu, it is about 2,343 m. (7,688 ft.) above sea-level and has a temperate climate. The place affords plenty of scope for such recreations as walking, hiking, boating, fishing, hill climbing and golf. For the more adventurous there is big game hunting. Kodaikanal is the delight of the gardener and flowers are in bloom all the year round. The long winding road up the hill reminds one of the road up to Sorento in Italy. The greenery on the way is breathtaking. The different waterfalls make Kodaikanal a truly beautiful vacation spot. A man-made lake with a three-mile shady promenade around it is the popular place in the evenings. Kodaikanal has a hint of a place somewhere on the continent with chalet-type houses perched at random on the slopes of the Palni Hills.

Cochin : In Kerala it is one of the important ports on the west coast of India and, yet it is very different than a typical commercial port. Shady lagoons, wooded islands, ancient palaces and churches are encircled by canals of palm fringed shimmering backwaters. In fact Cochin is a cluster of islands and towns linked by bridges.

In Mattanchari is the community of Jews that came to Kerala as early as the 1st Century A.D.

A side trip down the west coast to Alleppey and then on to Quilon on the backwaters, offers breathtaking scenery. Lush vegetation and palm thatched villages are dotted with churches in Portuguese colonial style.

Trivandrum : The sea-side capital of Kerala is built like Rome, on hills. Many parks and lovely buildings with their gabled roofs, stand on low hillocks, while the restful valleys below are adorned with coconut groves. Trivandrum means "the place of the sacred snake Anant". The imposing temple of Sri Padmanabhaswami is dedicated to the Hindu God Vishnu, his image reclining on Sheshnag, the enormous hooded serpent.

A long drive from Alleppey to Trivandrum via Quilon has a very picturesque scenery along the west coast of India.

Mysore : It has a quiet charm so characteristic of a university town. For long the seat of an ancient ruling family, it has a good deal of colour and glamour. Besides palaces and gardens this place is famous for its ivory and sandalwood carvings and cast metal statuettes.

EXCURSIONS OUT OF MYSORE

Srirangapatna : The city of Lord Ranganath — takes its name from the imposing temple of Vishnu. This quiet island-town on river Kaveri 16 km. (10 miles) from Mysore, is reminiscent of many battles and past glories. On special occasions devout Hindus pass through this place to bathe in the river and to worship in this shrine.

Tipu Sultan, son of Hyder Ali, inherited a large dominion from his father. Srirangapatna was its capital and it became the centre of diplomatic manoeuvres against the rising power of the British. Tipu's summer palace in the midst of an exquisite garden on the river bank has large panels with paintings depicting battle scenes and processions that recall episodes from his and his father's life. The walls, pillars, arches and roofs are covered with an amazing variety of painted designs made gorgeous by a liberal use of gold.

Sravana Belgola: Wedged in between two hills, which rise abruptly from a flat plain, Sravana Belgola dominates the countryside for four miles with its 17·37 m. (57 ft.) high Jain colossus of Lord Gomateswara, shaped out of a single rock. This monolithic statue was carved in 983 A.D.

The town, a flourishing centre of Jain pilgrimage, abounds in monuments that recall the achievements of a bygone age. It is about 100 km. (62 miles) from Mysore.

Belur : 56·3 km. (35 miles) from Sravana Belgola is Belur, 800 year's ago a flourishing capital of the Hoysala kings. Its chief place of interest is the 12th century temple of Chenna Keshava, a manifestation of Vishnu. Its outer walls are decorated with an amazing variety of carvings. No description can do justice to the infinite patience and skill with which the sculptors fashioned the intricate details of the scroll work, the niches, the elephants, the miniature turrets and human figures and gods. The interior of the temple also displays a profusion of artistic skill lavished on the pillars, ceilings, doorways, and bracket figures.

Halebid : 12·8 km. (8 miles) from Belur, it was the metropolis of the ancient Hoysala rulers. The Lord Siva temple built about the same time as the Belur Temple has every inch of its outer wall covered with friezes of great variety. Remarkable for artistic skill are the sculptured elephants, horses, mythical beasts and birds, the scroll work of infinite beauty and variety, and the big panels of gods and goddesses of the Hindu pantheon running all round the walls.

Usually all these places are visited from Mysore in a day and a half's trip with a night stop at the comfortable Traveller's Lodge at Hassan.

Bijapur : Town in Karnataka State, capital of the old Adilshahi Sultans of Bijapur, is rich with the remains of palaces, mosques and tombs. Gol Gumaz the vast mausoleum of Mohammed Adil Shah (17th century) has a dome which is the second largest in the world with St. Peter's at Rome bigger by merely 15 feet. The Whispering Gallery inside the dome is so constructed that a soft whisper at one point of the gallery can be heard most distinctly at the opposite point. Jama Masjid of Bijapur is the greatest mosque in the south and also one of the finest in India.

GAME SANCTUARIES

Rangathittoo Bird Sanctuary: It is a mile away from Srirangapatna and 14·4 km. (9 miles) from Mysore. Consisting of islets in the Kaveri river, it is inhabited by a variety of storks. Primarily it is a breeding place for herons. Also during the months of June to August other birds like white ibis, Indian dartar, cormorant and cattle egret breed here.

Accommodation : Travellers' bungalow at Srirangapatna.

Bandipur Sanctuary : 78·8 km. (49 miles) from Mysore on the road to Ooty is the game preserve of the former rulers of Karnataka State. This sanctuary now shelters herds of wild elephants, the Indian 'bison', the spotted deer, tiger, sloth bear and leopard. Tame elephants can be hired for a ride around the sanctuary and it can be visited at any time of the year.

Accommodation : Three forest lodges and one travellers' bungalow.

Mudumalai Sanctuary : Adjacent to Bandipur is this sanctuary of 295 sq. km. (114 sq. miles). Gaur, sambar, elephant, barking deer, chital, wild boar and occasionally a tiger or a leopard are seen here. A variety of birds are also found here. It is 96·5 km. (60 miles) from Mysore.

Nagarhole Sanctuary : It is 228 km. (142 miles) from Mysore via Mercara. Wild elephant, deer, panther, jackal and if one is lucky, the tiger can be spotted here. One can stay at the Forest Lodge.

Dandeli Sanctuary : It is well-known for elephant, bisons, panther, tiger, sambar and chital. The place abounds in excellent viewpoints and beauty spots. It is about 76 km. (47 miles) from Dharwar by road which is connected with the nearest airport Belgaum by rail (121 km. or 75 miles). The sanctuary, which is not accessible during the monsoon months of June to October covers an area of 207 sq. km. (80 sq. miles).

Accommodation : Four forest bungalows at Dandeli.

Periyar Sanctuary : One of the finest spots in the country, the wild life sanctuary at Theckady in Kerala consists of an artificial lake of 26 sq. km. (10 sq. miles), in a sanctuary of 673 sq. km. (260 sq. miles). It is famous for its wild elephants besides Indian 'bison', sambar and stray panther and tiger. October to May are the best months for a visit. Motor boats take visitors about on the lake from where all these animals can be watched in comfort.

Vedanthangal Bird Sanctuary : 139·8 km. (54 miles) south of Madras this small sanctuary breeds birds like, white ibis, night heron, spoon bill, open bill stork, Indian dartar, grey heron, egret and two species of cormorant. Good months to visit are from November to February.

IN WESTERN REGION

Bombay : Arriving by sea or by air, one is struck by its natural setting — the far-away blue outlines of the majestic Western Ghats, the calm sea dotted with fishing boats the palm-fringed beaches and on the outskirts smoke rising from a thousand chimneys in the mill area — a reminder that Bombay is one of the largest industrial cities of the East.

A cosmopolitan city, it owes its prosperity to the industry and enterprise of its population of six million. Bombay is a city of contrasts where the rich and the poor, the educated and the illiterate, the modern and the ancient co-habit. It is the largest city in India which has grown out of seven islands. Over the years the islands merged into one another by reclamation of land from the sea.

Excursions Around Bombay: About 38·8 km. (15 miles) to the north of the city is Juhu, the palm-fringed natural beach, ideal for bathing. Juhu has good hotels, while shacks and villas along the beach can also be rented. For a quiet swim, Versova and Marve, further up the coast, are recommended. Bombay's picturesque lake district is only an hour's drive from the city.

Some 15 km. (6 miles) across the Bombay harbour, on a small island are the famous cave temples of Elephanta. Five in all, these cave temples date back to the eighth century. The main cave, dedicated to Siva, has huge sculptures and panels in relief. The most striking of the images is the Maheshmurti, a 6 m. (19 ft.) high, three headed bust hewn from a single rock representing the triple aspect of the Hindu Divinity.

There are a number of rock-cut monuments around Bombay. The more well-known among them are the Kanheri group of Buddhist caves and the series of shrines and monasteries known as Karla, Bhaja and Bedsa.

Aurangabad : In Maharashtra is where Emperor Aurangzeb built a replica of the Taj, Bibi-ka-Maqbara, a mausoleum for his wife. It has its own splendour and grace quite different than the Taj.

Close to Aurangabad is Daulatabad, "City of Fortune", built in the 14th century by a Sultan of Delhi, who was mad enough to try to move here the whole population of Delhi, which is some 1,813 km. (700 miles) away.

Ajanta-Ellora : An hour and a half's flight from Bombay is Aurangabad, the starting point of a journey to two of the world's famous rock-cut temples — Ajanta and Ellora, the most remarkable monuments of their kind in the world. These monasteries and shrines have been hewn out of living rock by generations of sculptors. Ajanta, 170 km. (66 miles) from Aurangabad, lies in a narrow gorge and contains a breathtaking picture gallery of frescoes. It is believed that these caves were cut in stages between the 2nd century B.C. to about 7th century A.D.

The Ellora caves situated 38·8 km. (15 miles) from Aurangabad are excavated in the face of a hill and run north to south for a mile and a quarter. The crescent-shape hill has Buddhist, Hindu and Jain cave temples with a unique collection of sculptures. These caves are about a thousand years old.

Ahmedabad : is the second largest textile centre in India. It contains numerous monuments of the fifteenth and sixteenth centuries, amongst them are the Shaking Minarets which are architectural wonders. Mahatma Gandhi's ashram is situated on the banks of the river Sabarmati. A 45 minutes Son-et-Lumiere show brings the ashram alive giving its history and an insight into the life of Mahatma Gandhi.

Goa : Cradled among the picturesque hills of the western ghats, its panoramic beauty, its smiling green valleys and its luxuriant tropical vegetation, its quaint houses and the ruins of old and historic buildings which bring ancient splendour to life, all combine to make it an earthly paradise. Once a Portuguese possession in India, Goa has numerous beautiful beaches, where one can sun-bathe, swim or just laze away in the vast expanse of dazzling white sands fringed with swaying palm trees.

The remnants of the Portuguese civilization can be seen in the old Goa. Among the still surviving ancient Portuguese churches is the Basilica and the Convent of St. Francis Xavier, built in the 16th century, where the body of St. Francis Xavier, patron saint of Goa, is enshrined in an exquisitely carved glass and silver-casket.

Goa is easily reached from Bombay by a 75 minutes flight by the Indian Airlines.

Game Sanctuary : (*Gir Forest*) Roaming the dry open shrub land of the Gir Forest is a population of about 200 lions and cubs. The Gir is the last remaining habitat of the Asian lion. The best time to see them is from December to May. Wild bear, panther, sambar, blue bull and deer of different varieties also live in this forest along with a number of varied birds. The nearest airport is Keshod, 86·9 km. (54 miles) by road from Sassan Gir. Keshod is connected with Bombay by weekly air service during the season.

TOURIST TRAFFIC

FOREIGN TOURIST ARRIVALS IN INDIA — 1974.

(These statistics relate to foreign tourists excluding nationals of Pakistan and Bangla Desh.)

A total of 423,000 foreign tourists visited India during 1974 showing an increase of 3·2 per cent over the corresponding figure for 1973 (409,000).

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METEOROLOGY

AVERAGE MONTHLY TEMPERATURE °C FOR DIFFERENT STATIONS

Name of Station	Altitude in Metres	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
Agra	169	14·8	18·0	23·8	29·7	34·5	35·0	30·9	29·3	28·9	26·2	20·6	16·1
Ahmedabad	55	20·3	22·7	27·1	31·3	33·5	32·7	29·5	28·2	28·7	28·4	24·5	21·1
Allahabad	98	16·4	19·1	25·1	30·7	34·7	34·3	30·1	29·1	29·0	26·5	21·1	17·1
Bangalore	921	20·9	23·1	25·7	27·3	26·9	24·3	23·2	23·3	23·3	23·2	21·7	20·5
Bombay	11	24·3	24·9	26·9	28·7	30·1	29·1	27·5	27·1	27·4	28·3	27·5	25·9
Calcutta	6	20·2	23·0	27·9	30·7	31·1	30·4	29·1	29·1	29·2	27·9	23·9	20·6
Cherrapunji	1,313	11·7	13·7	16·7	18·5	19·2	20·1	20·3	20·5	20·5	19·1	15·8	12·9
Darjeeling	2,127	6·1	7·7	11·3	14·4	15·7	17·0	17·6	17·6	17·3	15·1	11·3	8·1
Dehra Dun	682	12·6	14·8	19·4	24·5	28·9	29·5	26·7	26·1	25·5	22·1	17·5	13·9
Gauhati	54	17·5	19·5	23·3	25·9	26·9	28·1	28·9	29·0	28·7	26·3	22·3	18·7
Hyderabad	545	21·6	23·9	27·4	30·3	32·5	29·1	26·1	25·8	25·7	25·1	22·3	20·6
Indore	567	17·9	19·9	24·5	29·1	32·3	30·1	26·1	25·1	25·1	24·1	20·5	18·3
Jaipur	390	15·1	18·1	23·2	28·7	33·2	33·3	29·9	28·1	28·1	25·7	20·5	16·7
Jammu	366	13·3	15·8	20·6	26·8	32·4	34·1	30·7	29·1	28·6	25·4	19·8	15·2
Jamshedpur	129	19·3	21·7	26·7	31·2	33·4	31·7	28·9	28·7	28·7	26·9	22·3	19·2
Kangra		Not available											
Kodaikanal	2,343	12·5	13·3	14·6	15·7	16·5	15·4	14·3	14·5	14·5	13·9	12·9	12·5
Lucknow	111	16·1	18·9	24·6	30·1	33·9	33·7	30·1	29·3	29·1	26·3	21·0	16·9
Madras	16	24·5	25·9	27·9	30·5	32·7	32·5	30·7	30·1	29·7	28·1	25·9	24·6
Mahableshwar	1,382	18·9	20·5	23·1	24·1	23·5	19·4	17·9	17·6	18·0	20·1	19·5	18·7
Matheran		Not available											
Mussoorie	2,042	6·3	7·8	11·7	16·5	19·9	20·3	18·3	17·9	17·1	14·9	11·6	8·5
Mysore	767	22·3	24·7	26·9	27·7	26·9	24·5	23·5	23·7	24·0	24·0	22·9	21·7
New Delhi	216	14·3	16·9	22·7	28·6	33·5	34·3	31·3	29·9	29·3	25·9	20·3	15·7
Ootacamund	2,249	12·5	13·5	15·1	16·1	16·5	14·5	13·7	14·1	14·3	14·3	13·6	13·0
Panaji	57	25·5	24·3	27·5	29·0	29·8	27·5	26·4	26·5	26·5	27·3	27·6	26·8
Patna	53	17·3	19·9	25·7	30·5	32·5	31·9	29·8	29·3	29·3	27·5	22·5	18·3
Pune	559	21·3	23·1	26·5	29·3	29·9	27·5	24·9	24·6	25·0	25·5	22·9	21·1
Ranikhet		Not available											
Shillong	1,500	9·5	11·7	16·0	18·9	19·6	20·5	21·1	20·9	20·1	17·3	13·3	10·5
Simla	2,202	5·2	6·7	10·6	15·2	19·2	20·3	18·3	17·7	16·9	14·3	11·1	7·7
Srinagar	1,586	1·1	3·5	8·5	13·3	17·9	21·7	24·6	23·9	20·5	14·1	7·7	3·5
Trivandrum	64	26·8	27·3	28·3	28·7	28·3	26·5	26·1	26·3	26·6	26·7	26·6	26·7
Udaipur	582	16·0	18·7	23·7	28·1	31·7	30·6	27·3	26·1	26·5	25·5	20·1	17·3
Vadodara	34	20·5	22·5	26·6	30·8	33·4	32·1	28·9	28·1	28·3	27·5	23·9	21·2
Varanasi	76	16·5	19·3	25·3	30·5	34·3	33·7	30·0	29·1	29·1	26·6	21·0	17·1

AVERAGE MONTHLY RAINFALL (MILLIMETRES) FOR DIFFERENT STATIONS

Name of Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
Agra	16·2	8·8	10·9	5·3	10·0	60·0	210·2	263·2	151·5	23·5	2·1	3·7
Ahmedabad	3·9	0·3	0·9	1·9	4·5	100·0	316·3	213·3	162·8	13·1	5·4	0·7
Allahabad	20·2	22·2	14·3	4·8	8·2	101·7	274·8	333·1	195·1	39·7	6·9	6·3
Bangalore	3·3	10·2	6·1	45·7	116·5	80·1	116·6	147·1	142·7	184·9	54·3	16·2
Bombay	2·0	1·1	0·4	2·8	16·0	520·3	709·5	439·3	297·0	88·0	20·6	2·2
Calcutta	13·8	24·2	26·5	42·7	120·6	259·1	300·6	306·3	289·7	160·2	34·9	3·2
Cherrapunji	19·8	37·3	178·9	605·2	1,705·1	2,921·5	2,456·7	1,827·5	1,167·7	447·4	46·7	4·9
Darjeeling	21·7	26·7	52·4	109·0	187·1	522·3	712·9	572·5	418·5	116·1	14·2	5·0
Dehra Dun	62·2	59·4	39·7	17·4	41·7	185·9	720·8	764·9	326·7	70·8	5·1	19·1
Gauhati	11·4	18·3	53·4	125·9	273·6	293·4	301·5	263·0	190·1	90·1	11·5	5·0
Hyderabad	1·7	11·4	13·4	24·1	30·0	107·4	165·0	146·9	163·3	70·8	24·9	5·5
Indore	8·4	1·1	3·5	3·5	13·2	147·1	316·0	266·5	220·9	48·4	22·1	2·7
Jaipur	14·0	8·4	8·6	4·2	10·0	54·0	193·2	239·0	89·8	19·3	3·4	4·2
Jammu	71·3	59·4	57·0	25·2	17·0	60·9	320·7	319·1	150·8	29·5	7·9	29·5
Jamshedpur	14·1	28·3	23·8	25·4	68·8	217·5	347·2	356·1	215·4	76·2	16·7	1·8
Kangra	78·5	73·1	70·6	36·6	39·9	108·2	578·4	692·7	218·4	19·1	8·1	37·1
Kodaikanal	62·7	31·6	64·3	166·1	157·4	103·8	117·4	162·8	160·5	250·3	274·0	121·2
Lucknow	23·7	17·2	9·2	6·4	11·7	93·9	299·0	301·8	181·7	40·3	1·4	6·1
Madras	23·8	6·8	15·1	24·7	51·7	52·6	83·5	124·3	118·0	267·0	308·7	139·1
Mahableshwar	3·1	1·8	6·8	29·6	55·4	898·3	2,521·3	1,714·7	709·2	179·3	56·7	6·1
Matheran	2·0	1·5	2·3	4·1	25·1	773·9	2,035·6	1,461·0	658·6	168·1	31·5	3·8
Mussoorie	66·4	66·9	63·5	29·5	45·1	188·5	726·5	754·7	323·2	64·8	7·7	31·3
Mysore	2·8	5·5	12·0	67·6	156·9	60·5	71·9	80·1	116·3	179·9	66·6	14·7
New Delhi	24·9	21·8	16·5	6·8	7·9	65·0	211·1	172·9	149·7	31·2	1·2	5·2
Ootacamund	25·8	12·0	29·5	108·5	172·6	139·2	176·6	128·2	109·7	213·3	126·5	59·1
Panaji	2·3	0	4·2	16·9	17·6	580·1	892·1	341·1	276·6	122·3	20·4	37·5
Patna	21·1	20·2	6·7	8·2	28·3	139·0	265·8	307·1	242·5	62·8	5·7	2·4
Pune	1·9	0·3	3·1	17·6	34·7	102·8	186·8	106·4	127·3	91·9	37·0	4·9
Ranikhet	54·1	62·0	46·2	31·0	50·0	144·0	331·5	344·4	165·9	33·5	7·4	22·9
Shillong	15·2	28·5	59·4	136·4	325·4	544·6	394·9	334·6	314·9	220·2	34·9	6·3
Simla	65·2	47·6	58·1	37·6	53·7	147·5	414·5	385·4	195·2	45·4	6·7	23·7
Srinagar	72·8	72·3	104·1	78·1	63·4	35·6	61·0	62·8	31·8	28·7	17·5	35·9
Trivandrum	20·1	20·3	43·5	122·1	248·6	331·2	215·4	164·0	122·9	271·2	206·9	73·1
Udaipur	9·0	4·4	3·5	2·6	4·6	87·0	197·3	206·9	120·4	16·1	5·7	2·5
Vadodara	2·0	2·4	0·7	2·9	4·1	114·8	365·8	263·5	185·5	34·5	9·0	0·2
Varanasi	25·0	21·9	11·9	3·9	12·3	91·9	306·2	342·2	225·7	59·5	9·6	3·3

Statement of sub-divisional means of rainfall in millimetres during 1973 and 1974

Sub-Divisions	1974 — June to September				1973 — June to September			
	Actual	Normal	Dep. from normal	% dep. from normal	Actual	Normal	Dep. from normal	% dep. from normal
Bay Islands	1,346	1,597	− 251	− 16	1,451	1,597	− 146	− 9
Arunachal Pradesh	3,236	2,087	+1,149	+ 55	3,088	3,122	− 34	− 1
Assam & Meghalaya	1,978	1,291	+ 687	+ 53	1,545	1,501	+ 44	+ 3
Nagaland, Manipur, Mizoram and Tripura	1,314	1,316	− 2	0	944	1,156	− 212	− 18
Sub-Himalayan West Bengal ..	2,295	1,980	+ 315	+ 16	1,968	2,182	− 214	− 10
Gangetic West Bengal	1,160	1,103	+ 56	+ 5	1,353	1,127	+ 226	+ 20
Orissa	782	1,189	− 407	− 34	1,206	1,182	+ 24	+ 2
Bihar Plateau	1,031	1,112	+ 81	− 7	1,133	1,105	+ 29	+ 3
Bihar Plains	1,218	1,044	+ 174	+ 17	1,058	1,059	− 1	0
Uttar Pradesh, East	809	939	− 130	− 14	881	961	− 81	− 8
Plains of West Uttar Pradesh	693	795	− 102	− 13	858	787	+ 70	+ 9
Hills of West Uttar Pradesh† ..	1,181	1,465	− 284	− 19	1,418	1,463	− 45	− 3
Haryana (including Delhi) ..	409	577	− 168	− 29	703	603	+ 99	+ 16
Punjab	289	449	− 160	− 35	595	493	+ 103	+ 21
Himachal Pradesh	990	1,322	− 332	− 25	1,348	1,309	+ 39	+ 3
Jammu and Kashmir	260	276	− 16	− 6	359	276	+ 82	+ 30
Rajasthan, West	137	265	− 129	− 48	387	255	+ 131	+ 51
Rajasthan, East	507	641	− 134	− 21	913	601	+ 311	+ 52
Madhya Pradesh, West ..	853	935	− 82	− 9	1,421	956	+ 465	+ 49
Madhya Pradesh, East ..	891	1,202	− 311	− 26	1,183	1,231	− 49	− 4
Gujarat Region	271	837	− 566	− 67	1,155	837	+ 318	+ 38
Saurashtra and Kutch ..	170	585	− 415	− 71	463	549	− 86	− 16
Konkan	2,758	2,505	+ 253	+ 10	2,607	2,479	+ 127	+ 5
Madhya Maharashtra	492	517	− 26	− 5	591	518	+ 73	+ 14
Marathwada	441	667	− 225	− 34	815	680	+ 135	+ 20
Vidarbha	667	968	− 302	− 31	1,009	997	+ 12	+ 1
Coastal Andhra Pradesh ..	450	540	− 90	− 17	408	555	− 147	− 26
Telangana	602	783	− 181	− 23	749	778	− 29	− 4
Rayalaseema	451	429	+ 21	+ 5	368	388	− 20	− 5
Tamil Nadu	321	279	+ 42	+ 15	314	269	+ 45	+ 17
Coastal Karnataka	3,357	2,945	+ 412	+ 14	2,946	2,945	+ 1	0
Interior Karnataka, North ..	500	494	+ 6	+ 1	579	568	+ 11	+ 2
Interior Karnataka, South ..	416	406	+ 10	+ 2	478	417	+ 16	+ 15
Kerala	1,896	1,731	+ 164	+ 9	1,348	1,602	− 255	− 16
Lakshadweep	1,270	1,026	+ 243	+ 24	1,019	981	+ 38	+ 4

Note:—For calculation of excess and defects and their % rainfall figures are taken correct to 0·1 mm.

† The new sub-division "Hills of West Uttar Pradesh", was formed with effect from 1-1-1971.

MINES AND MINERALS

THE total value of mineral production in India during 1973 was Rs. 4,926 million as against Rs. 5,426 million in the previous year. Fuels (coal, lignite, petroleum & natural gas) constituting the leading group accounted for Rs. 3,749 million or 76 per cent of the total value of mineral production during 1973. The share of metallic minerals was Rs. 760 million and that of non-metallic minerals Rs. 417 million accounting for 15 and 8 per cent respectively.

In terms of value of output during 1973 next to coal and lignite (Rs. 2,946 million) and petroleum and natural gas (Rs. 803 million) were iron ore (Rs. 445 million), limestone (Rs. 253 million), manganese ore (Rs. 72 million), gold (Rs. 87 million), copper ore (Rs. 64 million), mica (Rs. 21 million), dolomite (Rs. 24 million), kyanite (Rs. 10 million), chromite (Rs. 30 million) and phosphorite (Rs. 12 million).

The quantity index of mineral production (base 1960—100) stood at 184 during 1973 which is higher than the previous year. Fuel (coal, lignite, petroleum (crude) and natural gas) mining constitutes as much as 76 per cent of the overall mining activity in the country followed by metal mining with 14·6 per cent and non-metallic mining 8·4 per cent. The index of coal mining registered 156 in 1973 in comparison with 150 in 1972. Metallic mining index during 1973 was 159 as against 162 in the previous year. The index of non-metallic mining was lower in 1973 compared with 207 in 1972.

STATE-WISE ANALYSIS

Bihar occupied the leading position accounting for 28 per cent of the total value of mineral production in 1973 followed by Madhya Pradesh and West Bengal 16 and 15 per cent respectively. The supremacy of these States is primarily due to the fact that these are the principal producers of coal in India accounting respectively for 43 per cent, 19 per cent and 25 per cent of the all-India output during 1973.

The value of mineral production* (Rs.'000) in each state for 1972 is as follows:

Bihar	1,386,888
Madhya Pradesh	770,036
West Bengal	740,502
Gujarat	441,581
Assam	408,970†
Orissa	257,060
Andhra Pradesh	231,636
Tamil Nadu	158,263
Karnataka	148,887
Maharashtra	127,677
Goa	127,473
Rajasthan	91,006
Uttar Pradesh	16,524
Kerala	7,394
Haryana	7,364
Jammu & Kashmir	2,605
Meghalaya	1,168
Himachal Pradesh	779
Delhi	311
Punjab	—

† Includes the value of coal for Meghalaya State as separate figures are not available.

EXPORTS

The foreign exchange earned by exports of minerals and metals from India totalled Rs. 3,208 million during 1973 compared to Rs. 2,868 million in the preceding year registering a rise of 11·9 per cent mainly due to higher exports of iron-ore, chromite, diamond, ilmenite and mica. The share of minerals and metals in the foreign exchange earnings resulting from exports formed 14·2 per cent (minerals 11·3 per cent and metals 2·9 per cent) of the total merchandize as compared to 15·4 per cent (minerals 12·7 per cent and metals 2·7 per cent) in 1972.

The foreign exchange earned through the exports of ores and minerals during 1973 totalled Rs. 2,558 million as against Rs. 2,368 million during 1972 registering a rise of 8 per cent.

IMPORTS

Foreign exchange spent on the imports of minerals into India during 1973 totalled Rs. 3,605 million as compared to Rs. 2,234 million during 1972 registering an increase of 61·4 per cent.

MINERAL FUELS

Coal & Lignite: The most important coal fields are Raniganj in West Bengal and Jharia and Bokaro in Bihar. The best coking coal comes from Giridih, Jharia and Raniganj. Other States in which coal is found are Madhya Pradesh, Orissa, Andhra Pradesh, Tamil Nadu, Maharashtra, Assam, Rajasthan and Kashmir.

The total all-India proved, indicated and inferred reserves of all types of coal stand at 81,000 million tonnes with seams of 1·2 metres and above in thickness down to a depth of 600 metres from the surface. The reserve of coking coal is placed at 20,155 million tonnes.

The output of coal in million tonnes: **1969** (75.4); **1970** (73.7); **1971** (71.8); **1972** (75.6); **1973** (77.0).

The value of production of coal during 1973 was Rs. 2,831 million.

The output of lignite in million tonnes: **1969** (4.2); **1970** (3.5); **1971** (3.7); **1972** (3.1); **1973** (3.3).

The value of production of lignite during 1973 was Rs. 115 million. There was a sharp decrease in the export of coke during 1972 which totalled 17,782 tonnes valued at Rs. 2·3 million relative to 12,615 tonnes valued at Rs. 2·6 million in 1972.

The "Integrated Neyveli Lignite-Project" at Neyveli, S. Arcot district of Tamil Nadu, is planned to increase the mine output to 6/6·3 million tonnes per annum. During 1973, 3·3 million tonnes of lignite was mined in Neyveli.

Lignite also occurs at Palana and Khari in Bikaner district, Rajasthan; Nichahom in Jammu & Kashmir; Kutch and Bharuch districts in Gujarat.

METALLIC MINERALS (FERROUS GROUP)

Chromite: is an important strategic mineral of which India has moderate supplies.

The chief deposits of chromite ore are in Cuttack and Keonjhar districts of Orissa; Bhandara and Ratnagiri districts of Maharashtra, Singhbhum districts of Bihar, Mysore and Hassan Districts of Karnataka; Krishna district of Andhra Pradesh and Salem district of Tamil Nadu.

Production and exports respectively in '000 tonnes of chromite: **1969** (227, 112); **1970** (274,153); **1971** (273, 130); **1972** (295, 110); **1973** (287, 234).

Production of ferro-chrome during 1973 was 6,718 tonnes as against 1,525 tonnes in 1972.

Iron ore: The production of iron ore during 1973 totalled 35·4 million tonnes (including Goa) as against 35·5 million tonnes in the previous year.

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* Exclude the value of atomic minerals and minor minerals.

India is one among the few countries endowed with large reserves of good quality iron ores which can meet the growing demands of the indigenous iron and steel industry and also sustain considerable export trade.

The production from Goa during 1973 was 12·1 million tonnes as against 11·5 million tonnes during 1972. During the same year Madhya Pradesh produced 8·1 million tonnes, Orissa 5·9 million tonnes and Bihar 4·7 million tonnes.

Production of iron ore (including Goa) in thousand tonnes and value in thousand rupees respectively: **1970** (31,366 ; 369,118) ; **1971** (34,310 ; 400,641) ; **1972** (35,475 ; 422,088) ; **1973** (35,401 ; 444,781).

Among the minerals exported, iron ore is the largest foreign exchange earner contributing 46.5 per cent of the total value of mineral export during 1973. Japan continued to be the leading buyer of Indian iron ore accounting for 80·7 per cent of the total exports in 1973.

Export trade of iron ore in thousand tonnes and value in thousand rupees respectively are : **1970** (21,205 ; 1,186,210) ; **1971** (19,355 ; 1,027,931) ; **1972** (21,864; 1,131,047) ; **1973** (21,285 ; 1,189,011).

Manganese ore : Extensive deposits of manganese occur in Madhya Pradesh, Maharashtra, Orissa, Andhra Pradesh, Karnataka, Bihar and Rajasthan.

The total reserves of manganese ore in the country according to the latest estimates made, are placed at about 108 million tonnes including Goa. It is estimated that the deposits in the main belt of Nagpur and Bhandara in Maharashtra and Balaghat in Madhya Pradesh alone contain reserves of the order of 42 million tonnes. A major part of the output is exported at present.

Yearly output and exports respectively of manganese ore in thousand tonnes : **1970** (1,702 ; 1,614) ; **1971** (1,814 ; 1,243) ; **1972** (1,643 ; 861) ; **1973** (1,461 ; 692).

There is only one ferro-manganese plant under public sector at Bhadravati in Karnataka State, and six in the private sector, two each in Maharashtra and Orissa and one each in Andhra Pradesh and Karnataka.

During 1973, the total production of ferro-manganese was 140,096 tonnes as against 160,020 tonnes in 1972. The export of ferro-manganese during 1973 was 46,430 tonnes, valued at Rs. 44·1 million as against 51,783 tonnes valued at Rs. 46.9 million in the previous year.

NON-FERROUS GROUP

Bauxite: India is self-sufficient in respect of bauxite which is the chief raw material for aluminium metal. A sizeable quantity also finds outlet in export markets after meeting the indigenous requirements. The all India reserves of bauxite of all grades are placed at 227 million tonnes.

The important deposits of bauxite occur in Palamau and Ranchi districts of Bihar ; Surguja, Shahadol districts of Madhya Pradesh ; Salem, Madurai and Nilgiris districts of Tamil Nadu ; Kolhapur, Ratnagiri and Kolaba districts of Maharashtra ; Jamnagar, Kutch and Surat districts of Gujarat ; Kalahandi and Sambalpur districts of Orissa and Poonch, Riasi and Udhampur districts of Jammu & Kashmir.

Yearly production and export of bauxite in thousand tonnes are : **1970** (1,374 ; 135) ; **1971** (1,517 ; 54) ; **1972** (1,684 ; 28) ; **1973** (1,285 ; 28).

Six private sector aluminium smelters with an installed capacity of 178,800 tonnes per annum are located at Hirakud (Orissa) ; Alwaye (Kerala); Belgaum (Karnataka), Renukoot (U.P.) ; Mettur (Tamil Nadu) and Jayakanagar (West Bengal). Setting up of two units, under public sector one each at Ratnagiri, Maharashtra (50,000 tonnes capacity) and Korba, Madhya Pradesh (100,000 tonnes capacity) are under progress.

Copper : In India at present Indian Copper Corporation Ltd. is the sole producer of copper ore and metal at Ghatsila, Bihar which was taken over by the Government in 1972 and handed over to Hindustan Copper Ltd.

Extensive investigations are being carried out in Singhbhum copper belt of Bihar ; Khetri belt and Bhagoni area of Rajasthan ; Malajkhand of Madhya Pradesh, etc.

The integrated mine and plant at Khetri under the "Khetri Copper Complex" which is under construction will have a capacity of 31,000 tonnes of electrolytic copper metal annually. Besides 600 tonnes of sulphuric acid will be produced as a by-product which will be utilised for the production of about 200,000 tonnes of triple super phosphate per annum.

The production of refined copper was 10,740 tonnes in 1973 and 10,467 tonnes in 1972. This meets about 14 per cent of the copper requirements of the country.

Copper import in tonnes and value in '000 rupees respectively : **1970** (50,970 ; 624,391) ; **1971** (59,047 ; 549,998); **1972** (53,612 ; 478,962 ; **1973** (55,173 ; 635,073).

The trial production at Khetri and Kolihan mines has already commenced.

Lead & zinc : Investigation for lead-zinc were being carried out in Zawar belt of Udaipur district, Ambamata belt in Gujarat and Lokdega-Sargipalli of Orissa.

Zawar is the only area producing lead and zinc ores. During 1973, 7,671 tonnes of lead concentrates and 23,913 tonnes of zinc concentrates were produced from Zawar mines in Udaipur district, Rajasthan.

There are at present two zinc smelters, one at Debari in Rajasthan and the other at Alwaye, Kerala. The zinc smelter at Debari made further progress during the year expanding its capacity from 18,000 to 36,000 tonnes per annum of zinc metal and 20,000 tonnes of sulphuric acid (to be converted in turn into 76,200 tonnes single super phosphate later on) and 78 tonnes of cadmium metal.

Another firm *viz.* Cominco Binani Ltd. at Alwaye, Kerala based on imported concentrates, has annual installed capacity of 20,000 tonnes of zinc metal, 48,000 tonnes of sulphuric acid, and 36 tonnes of cadmium metal.

During 1972, the production of zinc metal and cadmium metal was 12,506 tonnes and 33 tonnes respectively.

The production of refined lead during 1973, was 2,636 tonnes as against 2,740 tonnes in 1972 from the Tundoo smelter, Bihar. The present installed capacity of the plant is 3,600 tonnes per annum.

NON-METALLIC MINERALS

Apatite and rock phosphate : These constitute the principal raw material for production of commercial phosphatic fertilisers. Requirements of rock phosphate were entirely met by imports till 1968. In view of their short supply, intensive exploratory programme for the search of phosphate minerals were launched upon by the Govt. and as a result several workable deposits of phosphorites were discovered in Rajasthan, Uttar Pradesh and Himachal Pradesh. Already production of phosphorite has commenced at Jhamar-Kotra and Maton in Udaipur district of Rajasthan and Maldeota in Dehra Dun district of Uttar pradesh. The production of phosphorite totalled 135,532 tonnes during 1973.

Yearly import of phosphate **1970 :** 667,657 tonnes ; **1971 :** 813,261 tonnes ; **1972 :** 809,476 tonnes ; **1973 :** 874,746 tonnes.

Asbestos : Naturally occurring fibrous minerals are called 'asbestos'. The commercial varieties fall into two groups *viz.* the serpentine group found extensively in the serpentine rocks and is commonly called chrysotile variety and the other amphibole group comprised tremolite, actinolite, anthophyllite, crocidolite and amosite varieties. The chrysotile variety is the most important one from the industrial point of view and is mainly limited to Pulivendla taluk of Cuddapah district of Andhra Pradesh and Singhbhum district of Bihar.

The bulk of the asbestos requirements of the country is met by imports. The trend in the production and imports of asbestos for the last four years is shown in the table below:

(In tonnes)

Year	Output	Imports
1970	10,128	39,766
1971	11,139	45,715
1972	12,359	46,379
1973	11,838	43,643

In all there were 9 asbestos cement manufacturing units in 1973 with a total licenced capacity of 561,000 tonnes per annum, against which the production was 412,989 tonnes.

Gypsum : Deposits are mainly found in Jodhpur, Bikaner, Nagaur and Jaisalmer districts of Rajasthan ; Tiruchirapalli and Coimbatore districts of Tamil Nadu and Doda and Baramulla districts of Jammu & Kashmir.

The total reserves are placed at 1,216 million tonnes, Rajasthan accounts for more than 90 per cent of the Indian reserves.

Smaller deposits also occur in Jamnagar, Bhavnagar-Junagadh and Kutch districts of Gujarat ; Nellore district of Andhra Pradesh ; Tehri Garhwal district of Uttar Pradesh and Sirmur district of Himachal Pradesh

Production of gypsum in thousand tonnes **1970 :** 926 ; **1971 :** 1,088 ; **1972 :** 1,015 ; **1973 :** 881.

Kyanite and sillimanite : are the important refractory minerals having the same composition (Al_2O_3 : SiO_2). India has the richest deposits of kyanite and sillimanite in the world. Kyanite deposits are located at Lapsaburu, Kharswan in Singhbhum district, Bihar and sillimanite deposits at Sonapahar in Khasi Hills, Meghalaya. The Indian sillimanite can be used as a refractory without calcination since it shows very little expansion. India occupies an important position both as a producer and an exporter of kyanite and sillimanite.

The trend of their output and exports for the last four years are shown in the following table :

(In tonnes)

Year	Kyanite		Sillimanite	
	Output	Export	Output	Export
1970 ..	120,923	69,331	4,565	1,739
1971 ..	63,482	42,821	4,326	1,628
1972 ..	67,897	28,983	4,046	714
1973 ..	53,941	25,091	3,086	1,003

Limestone : is one of the most important industrial minerals required in the manufacture of cement, iron and steel, ferro-alloys, chemicals (for soda ash, caustic soda, bleaching powder, calcium carbide etc.) fertiliser (calcium ammonium nitrate) and lime.

From the present knowledge of reserves of various limestone deposits, it is apparent that sufficient resources of flux and cement grade limestone are available.

The production of limestone in thousand tonnes and value in thousand rupees respectively : **1970 :** (23,843 ; 230,548) ; **1971 :** (25,079 ; 245,985) ; **1972 :** (25,946 ; 276,982) ; **1970 :** (24,259 ; 252,547).

Magnesite : Large deposits of magnesite used in the manufacture of magnesium salt, metallic magnesium and refractory bricks are known to occur in Salem (Tamil Nadu), Hassan, Coorg, and Mysore (Karnataka) ; Almora (U.P.), small deposits are known in Dungarpur (Rajasthan) and Singhbhum (Bihar). The chief producing centres are Salem and Mysore districts.

Major part of the output is used in the manufacture of refractory bricks for steel works and some quantity is exported.

Production and export (in tonnes) respectively : **1970** (354,291 ; 34,155) ; **1971** (295,604 ; 23,642) ; **1972** (250,931 ; 16,080) ; **1973** (193,266 ; 14,397).

Mica : is treated as a strategic mineral and India accounts for a big slice of the world trade in it.

The principal mica deposits are concentrated in Bihar, Rajasthan and Andhra Pradesh. During 1972, Bihar accounted for 49 per cent of the all India output, followed by Andhra Pradesh 38 per cent and Rajasthan with 12 per cent.

There are three mica insulation bricks manufacturing units, one each in Rajasthan, Bihar and Andhra Pradesh, utilizing scrap or mica waste. There is also one major unit manufacturing different types of micanite in Bihar.

The production of crude mica (excluding waste mica) and export of processed mica (unmanufactured) respectively in tonnes are : **1970 :** (16,581 ; 23,592) ; **1971 :** (15,095 ; 21,582) ; **1972 :** 14,114 ; 20,978) ; **1973 :** (13,654 ; 20,918).

Sulphur : The mineral pyrites is one source of sulphur. It is found in Amjhore (Bihar) ; Ingaldhal, Kaiga (Karnataka) ; Taradevi (Simla) ; Lashtial (Kashmir) ; Saladipura area (Rajasthan) and Polur (Tamil Nadu) of which Amjhore, Saladipura and Ingaldhal deposits are of economic importance.

The Pyrites and Phosphates and Chemicals Ltd. has been set up to exploit pyrites for production of sulphuric acid and other related products. The company continued implementation of two projects viz. (1) Mining of 0·24 million tonnes of pyrites per annum at Amjhore ; (2) production oriented exploratory mining pyrite project, Saladipura, Rajasthan. The Sindri acid plant of Fertiliser Corporation of India was commissioned in the first quarter of 1970. The country's requirements of sulphur are met from imports.

Yearly imports of sulphur in tonnes are : **1970 :** 521,081 ; **1971 :** 420,075 ; **1972 :** 558,990 ; **1973 :** 551,105.

Iodised Salt : The total quantity of iodised salt produced at Sambhar during 1973 was 52,982 tonnes and it was distributed as follows :—

1. Himachal Pradesh 10,657 tonnes ; 2. Chandigarh 1,364 tonnes ; 3. Haryana (Ambala Dist.) 3,379 tonnes ; 4. Punjab (Rupar, Hoshiarpur & Gurdaspur districts) 6,395 tonnes ; 5. Uttar Pradesh (7 districts) 15,955 tonnes ; 6. Bihar (Champaran Dist.) 6,917 tonnes ; Total 52,784 tonnes.

The production of iodised salt at Kharagodha during 1973 was 27,708 tonnes and it was distributed as follows :—

1. Uttar Pradesh (Bijnor & Dehra Dun Dists.) 6,688 tonnes ; 2. Bihar (Champaran Dist.), 6,126 tonnes ; Total 27,215 tonnes.

The production of iodised salt at Calcutta during 1973 was 24,610 tonnes and its distribution was as follows :—

1. Arunachal Pradesh 1,013 tonnes ; 2. Manipur 3,960 tonnes , 3. Nagaland 2,160 tonnes ; West Bengal (Darjeeling, Jalpaiguri, Coochbehar, Maldah and West Dinajpur Dists.) 17,380 tonnes ; Total 24,512 tonnes

The following quantities of bye-products were recovered during 1973 (in tonnes) :

Gypsum 138,082 ; Magnesium Chloride 6,841 ; Magnesium Sulphate 101 ; Magnesium Carbonate 20 ; Calcium Chloride 630 ; Liquid Bromine 396 ; Anhydrous Calcium Chloride 76 ; Potassium Bromide 61 ; Sodium Bromide 152 ; Ammonium Bromide 4 ; Sodium Sulphate 4,521 ; Burkeite 300.

Total production of salt in the country during 1973 was 6,860,200 tonnes.

(Source : Salt Commissioner, P. Box 139, Jaipur).

Rare Minerals : Investigations carried out by the Department of Atomic Energy have revealed a number of radioactive mineral deposits in India.

The beach sands of Kerala and Tamil Nadu contain a useful radioactive mineral — monazite, which contains thoria, uranium oxide, phosphate and a large percentage of rare earth oxides. Thorium can be converted into an important atomic fuel of the future. The total reserves of rare earth oxides in the beach sands have been estimated at approximately one million tonnes.

Ilmenite is also recovered from the beach sands of Kerala State and the Mahavalakurichi area in Tamil Nadu. It is now mainly exported to Japan. The present estimated resources of ilmenite in the country are placed at 100 to 150 million tonnes. The production of ilmenite during the financial year 1971-72 was 157,409 tonnes.

India's present overall indicated and inferred reserves of uranium are estimated at about 76,000 tonnes, and of thorium at 500,000 tonnes.

Uranium bearing ores have been discovered in the Singhbhum Thrust Belt of Bihar, and in the Himalayan regions of Himachal Pradesh and Uttar Pradesh. The uranium mine at Jaduguda in the Singhbhum district, worked by the Uranium Corporation of India Ltd., a Govt. of India undertaking, treats about 1,000 tonnes of ore per day in the uranium mill.

It has been estimated that the resources of uranium in India can support about 5 to 10 million KWs of electricity generating capacity.

PRODUCTION AND VALUE OF MINERALS

	Unit	Total Production			
		1972		1973*	
		Quantity	Value (Rs. '000)	Quantity	Value (Rs. '000)
All minerals**			**5,426,314**		**4,926,129**
Fuels			**3,691,729**		**3,749,096**
Coal	'000 tonnes	75,658	2,754,621	77,008	2,830,606
Lignite	,,	307	112,174	3,303	115,000
Natural gas@	Million cubic metres	927	43,396	920	40,740†
Petroleum (crude)	'000 tonnes	7,373	781,538	7,196	762,750¶
Metallic minerals			**739,281**		**759,957**
Bauxite	'000 tonnes	1,684	28,957	1,285	22,682
Chromite	Tonnes	294,500	35,636	287,216	30,239
Copper ore	'000 tonnes	873	56,527	1,105	63,715††
Diaspore	Tonnes	5,198	551	8,361	657
Gold (*a*)	Kilograms	3,290	87,458(*e*)	3,229	87,301(*e*)
Iron ore (total)	'000 tonnes	35,476	422,088	35,401	444,781
Lumps..	,,	23,791	309,825	22,298	304,696
Fines (*b*)	,,	11,685	112,263	12,912	125,512
Lead concentrates†	Tonnes	5,005	7,979	7,671	10,164
Manganese ore	'000 tonnes	1,643	76,455	1,461	71,689
Silver (*a*)	Kilograms	4,427	2,221	4,254	2,428
Tungsten ore	,,	32,382	1,288	25,509	1,061
Zinc concentrates	Tonnes	17,055	20,121	23,913	25,240
Non-metallic minerals			**995,304**		**417,076**
Agate	,,	798	112	1,084	150
Apatite & rock phosphates :					
Apatite	,,	11,613	761	9,981	795
Phosphorite	,,	216,693	19,484	135,532	12,324
Asbestos‡	,,	12,359	2,935	11,838	3,249
Ball-clay	,,	17,491	301	17,289	275
Barytes	,,	48,348	1,645	117,424	2,148
Calcite	,,	28,633	469	22,178	392
Chalk	,,	60,053	1,200	64,690	1,418

Notes :—(*a*) Relates to Metal. (*b*) Figures relate to despatches from the mines for internal consumption and exports. However, in the case of Goa, the figures relate to output. (*e*) Estimated. @ Relates to gas utilised. † Estimated at the consumption point.

†† Value of Copper Ore pertains only for the Mosabani group of mines. Pits Mouth value in respect of Rakha copper project in Bihar, Khetri and Kolihan copper mines in Rajasthan of H.C.L. and Kalyadi mine of Shri P. S. Narayana in Karnataka State are not included.

** Excludes the value of output of minerals declared as prescribed substances for the purpose of the Atomic Energy Act, 1962.

¶ Estimated at Refinery.

† The Hindustan Copper Ltd. in Andhra Pradesh have produced only lead ore from their mines during 1972 & 1973.

* The value figures are exclusive of 'minor minerals' for the year 1973.

‡ Production data in respect of Chrysotile and amosite asbestos refer to processed fibre/fibre content and that of amphibole asbestos refer to the unprocessed fibre.

The data for 1972 are based on the information received from respective State Govts. and the data from January, 1973 onwards are based on the returns received under M.C.D.R., 1958.

PRODUCTION AND VALUE OF MINERALS—*(Contd.)*

	Unit	Total Production			
		1972		1973*	
		Quantity	Value (Rs. '000)	Quantity	Value (Rs. '000)
Chinaclay (Natural) (1)	,,	288	3,130	265	3,005
Chinaclay (processed) (2)	,,	117	11,440	99	11,966
Clay (others)	,,	142	427	196	584
Corundum	Tonnes	391	205	265	119
Diamond	Carats	20,009	7,464	21,427	8,625
Diatomaceous earth	Tonnes	52	2	81	5
Dolomite	'000 tonnes	1,348	25,792	1,431	24,462
Emerald (crude)	Carats	21,370	N.A.	3,415	N.A.
Emerald (dressed)	,,	3,800	2	N.A.	N.A.
Felspar	Tonnes	52,801	1,126	42,526	615
Fireclay(c)	'000 tonnes	722	6,767	703	6,610
Fluorite (graded/sorted)	Tonnes	3,301	4,297	2,901	2,898
Garnet (abrasive)	,,	2,325	314	2,760	134
Garnet (gem variety)	Kilograms	1,883	17	789	17
Graphite	Tonnes	19,366	4,642	16,625	1,655
Gypsum	'000 tonnes	1,105	13,463	880,810	9,959
Jaspar	Tonnes	409	14	494	15
Kyanite	,,	67,897	9,767	53,941	9,702
Limestone & others					
Calcareous materials					
Limestone	'000 tonnes	25,946	276,982	24,259	252,547
Lime kankar	,,	338	1,968	330,778	2,163
Lime shell	,,	101	2,156	86	1,771
Calcareous sand	,,	960	1,326	1,004	1,230
Magnesite	,,	251	11,329(*u*)	193,266	7,428
Mica (crude)	Tonnes	14,114	20,064	13,654	20,973
Mica (mine waste, scrap, etc.)	,,	4,842	N.A.	4,976	N.A.
Ochre	,,	67,409	1,268	52,004	1,018
Pyrites	,,	30,723	5,764	41,507	7,787
Pyrophyllite	,,	15,086	419	14,912	434
Quartz & silica					
Quartz	'000 tonnes	231	2,427	142	1,418
Quartzite	,,	99	2,743	165	3,258
Silica sand	,,	391	5,502	381	4,755
Moulding sand	,,	63	320	68	308
Sand (others)	,,	891	2,022	991	1,849
Salt (rock)	Tonnes	4,252	574	3,599	486
Sapphire (raw/unwashed)	Kilograms	85	N.A.	—	—
Sillimanite	Tonnes	4,046	708	3,086	1,175
Slate	,,	1,114	182	1,088	200
Staurolite	,,	3	2	1	1
Steatite	'000 tonnes	211	6,824	207	6,969
Tourmaline	Tonnes	5	—	—	—
Vermiculite	,,	1,541	76	2,706	169
Wollastonite	,,	3,326	106	476	15

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(1) Chinaclay 'natural' refers to the mineral produced and consumed as such.
(2) Chinaclay 'processed' refers to the china clay obtained after processing the run of material
— Negligible.
* The value figures are exclusive of 'minor minerals' for the year 1973.
(*c*) Includes partly the output of fireclay incidentally recovered from the collieries.
(*u*) Under Reference.

FOOD AND AGRICULTURE

FOOD

SURPLUS areas: Madhya Pradesh, Punjab, Haryana, Orissa, Andhra Pradesh. **Self Sufficient Areas:** Uttar Pradesh, Rajasthan, Tamil Nadu, Karnataka, Assam. **Deficit Areas:** Maharashtra, Gujarat, Himachal Pradesh, Bihar, West Bengal, Kerala, Kashmir, Tripura, Nagaland and Arunachal Pradesh, Manipur and Meghalaya are marginal. Punjab, Haryana and Madhya Pradesh are generally surplus in wheat while Orissa, Madhya Pradesh, Andhra Pradesh and Haryana are surplus in rice.

PRODUCTION: Foodgrains production in 1973-74 was estimated at 103·6 million tonnes. This is about 6·6 million tonnes more than the previous year and represents an increase of 6·8 per cent in production. Production of pulses fell by about 0·2 million tonnes in 1973-74.

Total Internal Procurement and Issue of Foodgrains. ('000 tonnes)

Calendar Year	Procured by			Issued through		
	State	Centre	Total	State	Centre	Total
1969..	2,746	3,635	6,381	4,947	4,438	9,385
1970..	2,181	4,533	6,714	4,146	4,695	8,841
1971..	1,491	7,366	8,857	3,243	4,573	7,816
1972..	1,124	6,541	7,665	4,686	5,794	10,480
1973..	2,219	6,205	8,424	6,593	4,807	11,400

Ration Shops : At the end of 1973, the number of fair price and ration shops in the country stood at 207,000 as against 165,000 the previous year. The total population covered under statutory rationing was about 17·1 million.

Statutory Rationing continued to be in force in Calcutta and Asansol-Durgapur group of towns in West Bengal.

Procurement : Procurement of rice (including paddy) in 1972-73 marketing season amounted to 2·706 million tonnes while the total procurement of coarse grains (maize and millets) during 1972-73 was 0·311 million tonnes as compared to 0·181 million tonnes in the previous season. The total procurement of these during 1973-74 marketing season (out of 1972-73 crop) amounted to 4·531 million tonnes while in 1972-73 it was 5·006 million tonnes.

Imports (1969-73) : The imports of cereals over the years were as follows :—

Figures in million tonnes and value in Rs. million respectively are : 1969 : 3·872, 2,530·1 ; 1970 : 3·631, 2,075 ; 1971 : 2·054, 1,234·6 ; 1972 : 0·446, 232·9 ; 1973 : 3·614, 3,195·2.

The balance sheet of foodgrains distributed by Governments during 1971, 1972 and 1973 was as follows :—

('000 tonnes)

	1971	1972	1973
Opening stock with :			
States	1,670	1,498	975
Centre	3,899	6,639	2,442
Procurement	8,857	7,698	8,450
Imports	2,054	446	3,614
Stock with States at the end of the year ..	1,498	975	1,199
Central reserves at the end of the year ..	6,381	2,442	1,764

The imports of individual grains were as follows :—

(in million tonnes)

	1971	1972	1973
Rice	0·240	0·131	—
Wheat (including flour)	1·814	0·315	2·414
Others	—	—	1·200

Countries from which imports were obtained from 1971 to 1973 with quantity (in million tonnes) were as follows :

Country	1971	1972	1973
U.S.A.	1·234	0·072	2·133
Australia	0·121	0·023	—
Canada	0·459	0·220	—
U.A.R.	0·046	0·070	—
Burma	0·110	—	—
USSR	—	—	0·230
Argentina	—	—	0·637
Total	2·054	0·446	3·614

Countries from which wheat and rice were imported during the year 1973 :

(Quantity in million tonnes)

	Wheat and Flour	Rice
U.S.A.	1·381	—
Australia	—	—
Canada	0·614	—
Thailand	—	—
U.A.R.	—	—
Argentina	0·189	—
U S.S.R.	0·230	—

Wheat Policy for 1974-75 marketing season : In the context of the difficult food situation and the psychology of shortage prevailing in the country, the policy of takeover of wholesale trade was reviewed and a new wheat policy for the 1974-75 marketing season was adopted from 22nd March, 1974. According to the policy, it has been decided to continue the procurement of wheat by the public agencies in all the States and, in addition, to allow wholesalers, both private and co-operative societies, to operate under a system of licensing and control. The existing single State zones will be continued. There will be no restrictions on the movement of wheat within the State on trade account.

In the surplus States of Punjab, Haryana, Uttar Pradesh, Madhya Pradesh and Rajasthan, 50 per cent levy will be imposed on the foodgrains' traders including such co-operative societies on the daily purchases in the Mandis/purchase centres, to be given to Government at a fixed price of Rs. 105 per quintal. After the levy obligation has been discharged, the traders including such co-operative societies will be permitted to sell levy-free wheat within the State or outside the State on the basis of a permit. In the other wheat producing States, the State Government may undertake procurement by a graded levy on producers.

The trade will operate under strict control and regulations, including a ceiling on prices and stringent measures against violations. For successful implementation of this policy, while opportunity has been provided to co-operative societies, non-official committees will also be set up at different levels.

National Seeds Corporation, F.44-A, NDSE Part I, New Delhi-110049—for supply and production of foundation/certified seeds of the high yielding varieties. This Corporation has a large network of about 807 dealers working on commission basis and 76 sale points for distribution of seeds. The total sales amounted to Rs. 65·4 million during 1972-73 as against Rs. 46·5 million during the previous year. During the year 1972-73, Corporation exported seeds worth Rs. 3·96 million as against Rs. 1·82 million during the preceding year. It made a net profit of nearly Rs. 0·44 million for the year ending May, 1973.

It continued to provide training to the personnel engaged in seed production and also to advise the seed processing industry. To push up the sunflower production programme, it undertook seed multiplication in a big way.

The Tarai Seeds Development Corporation, Pantnagar, P.O. Haldi Nainital (U.P.): Set up in June 1969, with loan assistance from the World Bank, has a network of 37 distributors and 1,439 dealers. In kharif 1973, paddy seed production was taken up over an area of 2,023 hectares as against 1,947 hectares in the previous year. In Rabi 1973-74, wheat seed production was taken up over an area of 7,210 hectares as against 5,367 hectares in 1972-73. The total production of wheat seed (including foundation seed) was 25,680 tonnes. The Corporation during the year ending March 1973 made a net profit of Rs. 1·47 million as against a profit of Rs. 1·18 million last year.

Mechanised Farms : During 1972-73, Central State Farms were set up at Khammam (Andhra Pradesh) and Rae Bareilly (U.P.). The cultivated area at these farms amounted to 3,440 hectares, comprising 2,428 hectares at Khammam and 1,012 hectares at Rae Bareilly. A farm was also set up at Bahraich in Uttar Pradesh towards the close of the year. Preparatory work for setting up a farm each in Bihar and Madhya Pradesh was also done.

The State Farm Corporation which manages Central farms, sold 71,000 quintals of improved variety of seeds in 1972-73. It also helped in land development, levelling, reclamation and harvesting for private parties on commercial basis. In its 4th year of working (30th June '73) it earned a net profit of Rs. 6·82 million.

The Food Problem : The per capita consumption in India of all food items in terms of calories compares as follows :

Canada : 3,200 ; USA : 3,300 ; U.K. : 3,170 ; Japan : 2,470 ; India : 1,990.

The consumption of foodgrains and pulses in India has been increasing over the last few years at a rate much faster than production.

The increase in population of about 12 million persons per year in itself will require one million tonnes of additional foodgrains each year. With an increase of the per capita intake of 100 calories per day, India would require an additional 5 million tonnes of foodgrains per year.

For want of adequate cold storage, India loses 25 per cent of the perishable foods produced each year amounting to a financial loss of Rs. 5,000 million.

Buffer Stock : To stabilise the country's food economy, Government proposed to build a buffer stock of 5 million tonnes of food grains during the Fourth Plan period. During 1972 a decision was taken to raise the target to 7 million tonnes. The increased distribution of food grains during 1972 and 1973 coupled with the fall in procurement during 1972-73 led to a considerable depletion of stocks. At the end of 1973, the total stock stood at 2·8 million tonnes as against 3·4 million tonnes at the end of 1972.

Cold Storages : There are about 93,000 cold storages in the country.

Food Corporation : The Food Corporation of India was set up as a statutory body in January, 1965. The Corporation purchased about 8·7 million tonnes of food grains out of the 1973-74 crop comprising 4·5 million tonnes of wheat, 3·8 million tonnes of rice and 0·4 million tonnes of coarse grains.

WAREHOUSES

State/Territory	No. of Warehouses		Capacity (Tonnes)	
	Central	State	Central	State
Andhra Pradesh	28	38	368,596	76,711
Assam	3	27	22,400	33,386
Bihar	5	40	23,280	57,296
Gujarat ..	9	38	83,458	38,312
Haryana ..	6	44	50,777	219,124
Kerala	3	40	12,197	37,612
Karnataka ..	7	105	57,149	210,910
Madhya Pradesh	15	112	150,662	256,083
Maharashtra ..	7	46	54,610	79,797
Orissa	6	22	32,943	27,155
Punjab	8	112	69,389	212,753
Rajasthan ..	3	79	84,534	176,198
Tamil Nadu ..	11	27	236,661	80,033
Uttar Pradesh	12	79	77,403	317,828
West Bengal ..	16	29	254,667	128,708
Union Territories	3	Nil	36,050	Nil
Total ..	142	838	1,578,776	1,951,906

25 rice mills of 4 tonnes per hour capacity have been set up by the Corporation. A total quantity of 67,298 tonnes of paddy was milled during April — December 1973. The mill at Faridabad with a capacity for processing 10,000 tonnes of maize went into production from Nov. 1973.

The storage capacity owned by Food Corporation of India at the end of Feb. 1974, stood at 5·118 million tonnes. Including capacity hired from C. W. Corporation, S. W. Corporation, State Governments and private parties, the total availability of storage accommodation with the Food Corporation was 7·913 million tonnes. An agreement has been signed with the World Bank for financing the construction of 10 silo complexes, each with a capacity of 20,000 tonnes and 10 conventional godowns with a capacity of 10,000 tonnes. The silos are to be located in Punjab, Rajasthan and Uttar Pradesh. The conventional godowns also are to be located in these States and in Haryana. Detailed surveys of most of the silo sites have been completed by F.C.I.

Subsidiary Foods : The Food and Nutrition Board further intensified its activities for the promotion of high protein foods, such as, edible groundnut flour, cottonseed flour, soyabean products, vegetable protein and toned milk. Three new solvent extraction units were licensed for the production of edible groundnut flour and the total number of such units during 1973 was 42. Efforts were also continued for the development of soyabean products at the U.P. Agricultural University, Pantnagar. Available indigenous equipment for processing plant has been installed. At this unit, the University has been experimenting with new products based on soyabeans such as soya milk, soya extruded meal, soya grits and soya dal. A number of nutritious food formulations have been developed and evaluation of the products is in progress. A unit with production capacity of 125 tonnes per day is being set up at Faridabad with the assistance of UNICEF and in collaboration with the Food Corporation of India.

Balahar : During 1973-74 about 23,000 tonnes of Balahar were produced for free distribution to the school children under the mid-day meal programme.

Fortified Atta : During 1973, about 4,400 tonnes of fortified atta were produced for providing nutrition to the less privileged segments of the urban and rural population at Calcutta

Weaning Food : Bal Amul, a pre-cooked weaning food, has been successfully tried in the markets of Western and Southern India. During 1973-74, upto Feb. 1974 about 160 tonnes of Bal Amul was produced. Production of miltone, a protein isolate toned milk using groundnut, at the Government Dairy, Bangalore, was about 1 million litres in 1973-74. Two more units, one each in Ernakulam and Hyderabad, are being set up.

Canning Centres : Nineteen community canning and food preservation centres were under operation for popularising fruit and vegetable preservation and imparting training in the techniques of preservation. Twenty-one mobile food and nutrition extension units located in the States of Andhra Pradesh, Assam, Bihar, Gujarat, Haryana, Jammu, Maharashtra, Orissa, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh and West Bengal continued to promote nutrition education. The units organised 6,000 demonstrations including lectures and film shows during 1973-74.

Modern Bread : During the year 1973-74, about 115 million standard loaves were produced as against 94 million last year.

Package Programme : The package programme is now invigorated through three other programmes :

(*a*) **The IADP—Intensive Agricultural District Programme:** During 1972-73, the programme remained operative in practically all the 28,320 villages in the 15 selected districts. The use of fertilizers, improved seeds and pesticides in these areas maintained an upward trend. The programme was also adopted in 13 more districts including 2 districts in Punjab, 3 in Bihar, 1 in Karnataka, and 7 in Madhya Pradesh.

(*b*) **The HYVP — High Yielding Varieties Programme :** The programme was launched in 1966-67. It covered 9·20 million hectares in 1968-69, 11·4 million hectares in 1969-70, 15·4 million hectares in1970-71, 18·2 million hectares in 1971-72, 22·5 million hectares in 1972-73 and about 25·0 million hectares in 1973-74.

(*c*) **Multiple Cropping Programme** — This programme was started in 1967-68. As against the target of increasing the gross cropped area by 9 million hectares during the Fourth Plan, the achievement in 1969-70 was about 1·66 million hectares, in 1970-71 about 1·79 million hectares, in 1971-72 about 1·74 million hectares, in 1972-73 about 2·00 million hectares and about 1·7 million hectares in 1973-74.

Training Centres : The four Institutes of Catering Technology and Applied Nutrition at New Delhi, Bombay, Calcutta and Madras trained 1,600 students during 1973. The five Food-crafts Institutes at Kalamassery, Panaji, Bangalore, Nagpur and Lucknow trained 550 students in various courses such as cookery, bakery, confectionery, hotel reception, canning and fruit & vegetable preservation. In addition, three more institutes, one each at Hyderabad, Ahmedabad and Bhubaneswar commenced training during 1973 and arrangements have been finalised to commence training at the institute at Chandigarh.

Fifth Plan : During 1974-75 (the first year of the Fifth Plan) it is proposed to achieve a production target of 118 million tonnes of food grains through the extension of area under high-yielding varieties, coverage of larger area under irrigation, intensification of plant protection measures, use of larger quantities of pesticides, strengthening of research, etc. It is also hoped that the agricultural targets of 14 million tonnes in sugarcane production, about 10 million tonnes of oil-seeds and 6·8 million bales of cotton production fixed for the first year of the Fifth Plan will be achieved. In view of the rising population and income levels higher targets are envisaged for the Fifth Plan.

Food Situation in 1973-74 : Production of foodgrains which had suffered a heavy setback of about 11 million tonnes in 1972-73 over 1970-71, registered an increase of 6·6 million tonnes during 1973-74. Production of foodgrains during 1973-74 amounted to 103·6 million tonnes as against 97·0 million tonnes last year. While production of cereals went up by 6·8 million tonnes, that of pulses declined by 0·2 million tonnes.

The recovery in total foodgrains production, however, had very little impact on foodgrain prices which continued to rise almost throughout the country. To check the rise in prices public distribution of foodgrains was considerably stepped up. Total offtake from the public distribution system which rose from 7·8 million tonnes in 1971 to 10·5 million tonnes in 1972 was further raised to 11·4 million tonnes in 1973. However, because of the increased market availability of coarse grains and wheat resulting from the relaxation of restriction on their movements, the quantity of foodgrains issued through the public distribution system at 6·9 m. tonnes in 1974 (Jan–August) was lower than the quantity of 7·9 m. tonnes released during the corresponding period of 1973.

To augment the internal supply, arrangement were also made to import foodgrains from abroad. During Jan–Sept., 1974, about 3·3 million tonnes of foodgrains were imported.

AGRICULTURE

Agriculture offered employment to over 126 million people in 1971 against 131 million in 1961.

Some major facts about Indian agriculture (1971-72): Total geographical area according to Surveyor-General of India : 328·0 million hectares ; total reporting area : 306·0 million hectares ; area not available for cultivation including forests, 111·5 million hectares, land for non-agricultural uses and barren lands, 16·4 and 29·3 million hectares respectively ; other uncultivable lands like permanent pastures and grazing lands, land under tree crops and cultivable wastes 33·4 million hectares ; fallow land : 8·7 million hectares ; Current fallows : 12·6 million hectares ; net area sown : 139·4 million hectares ; area sown more than once : 24·6 million hectares ; gross area sown : 164·0 million hectares ; net area irrigated : 31·6 million hectares and gross area irrigated : 38·6 million hectares.

AREA AND PRODUCTION : The names of crops, area in million hectares and production in million tonnes respectively during 1973-74 are given below : Rice : 38·011 ; 43·742 ; Wheat : 19,057 ; 22·073 ; Barley : 2·625 ; 2·327 ; Maize : 6·021 ; 5·643 ; Jowar : 16·964 ; 8·992 ; Bajra : 13·646 ; 7·087 ; Ragi : 2·392 ; 2·132 ; Small millets : 4·532 ; 1·864 ; Total cereals : 103·247 ; 93·857 ; Gram : 7·691 ; 4,006 ; Red gram : 2·576 ; 1·364 ; Other pulses : 12·615 ; 4·384 ; Total pulses : 22·882 ; 9·754 ; Total foodgrains : 126·128 ; 103·611 ; Sesamum : 2·358 ; 0·486 ; Groundnut : 6·900 ; 5·798 ; Rape & mustard : 3·428 ; 1·682 ; Linseed : 1·876 ; 0·471 ; Castor-seed : 0·529 ; 0·235 ; Total oilseeds : 15·091 ; 8·682 ; Tobacco : 0·447 ; 0·441 ; Cotton : 7·601 ; 5·819† ; Jute : 0·792 ; 6·176† ; Mesta : 0·371 ; 1·461† ; Sanhemp : 0·140 ; 0·050 (fibre) ; Turmeric : 0·074 ; 0·133 ; Potato : 0·528 ; 4·473 ; Guarseeds : 1·162 ; 0·399 ; Coconut : 1·098 ; 5·924 ; Arecanut : 0·177 ; 0·152 ; Cashewnuts 0·235 ; 0·197 ; Cardamom : 0·076 ; 0·003 ; Sugarcane : 2·722 ; 14·046 (in gur) ; Pepper : 0·122 ; 0·027 ; Ginger : 0·024 ; 0·038 ; Chillies 0·732 ; 0·488 ; Tea : 0·358 ; 0·450 ; Bananas : 0·220 ; 3·190.

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† Million bales of 180 kgs. each.

Index of Production—All Commodities

(Base : Triennium ending 1961-62 = 100)

Year	INDEX NUMBERS OF PRODUCTION		
	Foodgrains	Non-foodgrains	All commodities
1968-69	115·7	113·2	114·8
1969-70	123·5	120·5	122·5
1970-71	133·9	126·6	131·4
1971-72	132·0	128·9	130·9
1972-73	121·2	119·4	120·6
1973-74	130·3	134·1	131·6

FOODGRAINS (1973-74) : A 6·8 per cent increase in food production was recorded this year over last year's production. This year's production stood at 103·6 million tonnes compared with last year's production of 97·0 million tonnes.

The total cereal production is 93·9 million tonnes, about 6·7 million tonnes more than last year at 87·2 million tonnes. The total pulses produced are 9·8 million tonnes — a decrease of 1·5 per cent.

Rice: Production in the country during 1973-74 was estimated at 43·7 million tonnes showing an increase of 4·5 million tonnes (11·5 per cent) over 1972-73. Bulk of the increase in production has been recorded by Andhra Pradesh, Maharashtra, Uttar Pradesh, Orissa, Madhya Pradesh, Gujarat, Karnataka, Punjab and Tripura and is due to favourable weather conditions and the intensive kharif production programme. This increase has been offset to some extent by the decreases reported by Bihar and Assam. West Bengal continued to be the largest producer of rice with an output of 5·800 million tonnes followed by Tamil Nadu with 5·595 million tonnes.

Wheat: The area under wheat was 19·1 million hectares and production 22·1 million tonnes. The decline in production during 1973-74 is accounted for mainly by Uttar Pradesh and Bihar and, to a lesser extent, by Haryana, Assam and Punjab due to failure of winter rains in several rabi growing areas and overall shortage of fertilisers. Wheat is grown widely as a winter crop, in Uttar Pradesh, Madhya Pradesh, Haryana and Punjab supplying over 70 per cent of the total outturn in this country. This crop occupies on an average about 11·4 per cent of the total cultivated area. More than 50 per cent of the crop is irrigated.

Jowar: About 16·964 million hectares yield about 8·992 million tonnes of grain. Maharashtra, Andhra Pradesh, Karnataka and Madhya Pradesh contribute over three-fourth of the total output. The jowar area and production respectively during 1973-74 were 17·0 million hectares and 9·0 million tonnes.

Bajra: Occupies about 14 million hectares to yield about 7 million tonnes of grain. Uttar Pradesh, Rajasthan. Haryana, Gujarat and Maharashtra are the chief growing tracts. The duration of the crop varies from about 2½ to 5 months. During 1973-74 bajra was cultivated in 13·6 million hectares and produced 7·1 million tonnes.

Ragi: Ragi occupies about 2·4 million hectares to produce nearly 2 million tonnes of grain. More than half the area is in Karnataka, Tamil Nadu and Andhra Pradesh. The area and yield during 1973-74 were 2·39 million hectares and 2·1 million tonnes respectively.

Other millets: Small millets form about one-tenth of the total area under millets and are grown in over 4 million hectares and yield about 2 million tonnes of grain. The area and yield during 1973-74 were 4·53 million hectares and 1·864 million tonnes respectively.

Maize: Maize is cultivated in India in about 6·021 million hectares to produce about 5·643 million tonnes of grain The major growing areas, Uttar Pradesh, Bihar, Rajasthan, Punjab and Madhya Pradesh among themselves account for about three-fourth of the maize area. The area and production during 1973-74 were 6·02 million hectares and 5·64 million tonnes respectively.

Barley: During 1973-74, barley was cultivated in an area of 2·625 million hectares and the production estimate was 2·327 million tonnes.

Pulses: Pulses are grown in over 22 million hectares producing about 9·8 million tonnes of grains.

Cotton: The area under cotton during 1973-74 was 7·6 million hectares producing 5·8 million bales of 180 kg. each of cotton lint or 3·1 million tonnes of kapas. Production of cotton during 1973-74 moved up partly due to increase in area and partly due to increase in average yield on account of large scale introduction of high yielding varieties in some areas.

Jute: The area under jute during 1973-74 was 7·92 million hectares yielding 6·2 million bales of 180 kg each.

Oilseeds: The present production of 5 major oilseeds viz., groundnut, sesamum, rapeseed and mustard, linseed and castorseed is 8·683 million tonnes as against 6·858 million tonnes a year ago. The production of groundnut is sought to be increased through use of better quality seed, fertilisers, adoption of plant protection measures, increasing the area under irrigated groundnut and promoting better cultural practices. Other measures being taken to increase oilseeds production include organisation of mass plant protection on rapeseed and mustard for the control of widespread pest ' aphids", extending the area under early maturing high yielding varieties of castor, acquainting the farmers with proper techniques for getting good results from the cultivation of rapeseed, mustard, castor nigar, soyabean and sunflower. Measures have been taken to increase the collection of salseeds in Madhya Pradesh, Bihar and Orissa and increase the crushing of cottonseed oil and rice bran oil through appropriate fiscal incentves. The centrally sponsored scheme for sunflower development, which was started in 1972-73 in the three States of Andhra Pradesh, Karnataka and Tamil Nadu, has now been extended to Gujarat and Maharashtra also (more details in Chapter on *Oilseeds and Vanaspati*).

The High Yielding Varieties Programme: It was envisaged that 25 million hectares would be brought under high yielding varieties of cereals by 1973-74. The achievement is expected to be substantially higher than the target in the case of wheat which was 11 million hectares. Before introducing high yielding varieties in 1964-65, the production of wheat was 12·3 million tonnes. In 1973-74, production rose to 22·1 million tonnes. Widespread rust diseases were observed in the wheat growing areas of Punjab, Haryana and western U.P. in 1972-73. Measures were taken during 1973-74 to limit the cultivation of Kalyan Sona which was found to be more susceptible to rust and to extend the cultivation of safer varieties like Sonalika.

In case of rice, the impact of high yielding varieties on production is not proportionate to area covered mainly because the kharif season is subject to drought in some areas and flooding in others. Under the Mini-kit programme for rice cultivation, 2 kgs. of seeds of two varieties are supplied free of cost to farmers and trials are laid out alongside existing varieties. The results of these trials are expected to help farmers make a proper choice of varieties suitable for agro-climatic conditions.

The high yielding programme for Hybrid-bajra has been successful. Of late, Ergot and Downy Mildew diseases have, however, posed problems, particularly in the case of HB-2 and HB-4 varieties. Hybrid jowar and maize are found to be more susceptible to pests and diseases and less liked by consumers. In the case of pulses, certain short duration varieties viz. Pusa Baisakhi in Moong and Ageti, Sharda and Mukka in Arhar have been evolved and are being cultivated in multiple cropping blocks. An additional 300,000 hectares would be covered under these varieties during 1973-74.

Fruit: The total area under fruit production is at present 1·80 million hectares and the production is estimated at 9·2 million tonnes. Centrally sponsored schemes for development of banana and walnuts are in operation in a number of States.

A Banana and Fruit Development Corporation, (3, Wheat Croft Road, Madras 600034), has been organised and the coverage under the banana package programme is likely to reach 6,000 hectares by 1973-74. The programme is being implemented in Andhra Pradesh, Gujarat, Kerala, Karnataka, Maharashtra, Orissa, Tamil Nadu, West Bengal and Goa. The present production of banana is about 3·19 million tonnes. A scheme for the development of walnut production for export is being implemented in Jammu & Kashmir, Himachal Pradesh and Uttar Pradesh and by 1973-74 about 4,000 hectares are proposed to be covered under the scheme. Additional schemes for the development of mango, pineapple, citrus and apple have been formulated and are receiving attention from the Government.

Exports of canned fruits during 1973-74 amounted to Rs. 18·72 million and that of pickles and chutnis to Rs. 11·51 million. During 1973, 163 new licences were granted including 19 for relevelling. Fruits and vegetable products amounting to about 50,000 tonnes are now manufactured in the country.

Regulated Markets: An immediate benefit has been the reduction in market charges between 28 to 50 per cent. So far 17 States and 3 Union Territories have established regulated markets. The number of regulated markets in the country is 2,384. Another 670 assembling markets are to be regulated during the 5th Plan period out of 800 still to be regulated. The Central Govt. has sanctioned a scheme with an outlay of Rs. 20 million for providing financial assistance for development of infra structure facilities in the selected market committee located in the economically underdeveloped areas in the States of Bihar, West Bengal, Orissa, Uttar Pradesh, Rajasthan and Madhya Pradesh. By the end of 1973-74 an outlay of Rs. 3 million is expected to be spent. This activity will be continued during the 5th Plan period with an outlay of Rs. 125 million. For 1974-75 an outlay of Rs. 8 million has been provided for this purpose. The number of grading units at the producer's level increased from 460 in October 1972 to 541 in March 1973. The total value of commodities graded for exports amounted to Rs. 1,334 million in 1972-73 and Rs. 857 million during the first half of 1973-74.

Marketing and Processing: The main features of the programme are (1) linking of credit with marketing in the form of marketing societies, (2) developing, processing and distribution of farming requisites on co-operative lines, (3) promotion of storage and warehousing, (4) consolidation and strengthening of consumer cooperatives at all levels; and (5) development of cooperatives for small, marginal farmers and agricultural labourers as also for tribal areas.

Exports: Exports of major agricultural commodities during 1972-73 were of the order of Rs. 4,201 million as against Rs. 3,432 million during 1971-72 showing an increase of over 22·4 per cent. This increase was mainly contributed by castor oil, groundnut extractions, cottonseed cake, unmanufactured tobacco, cashew kernel and fish. Exports during 1973-74 amounted to Rs. 6,684 million — 59·1 per cent higher than last year.

Cold storage: The present capacity of cold storage in the country is about 1·8 million tonnes provided by 1,403 cold storages mostly run by private traders. Three new licences were granted and 1,400 licences were renewed during the year 1973.

Agricultural Education: (See Chapter on Education.)

Soil Conservation: Under the Fourth Plan (1969-74), it was envisaged that an area of 5·39 million hectares of agricultural lands and 0·45 million hectares of non-agricultural lands would be benefited by soil conservation measures. It is estimated that the achievement might be around 6·4 million hectares with an estimated outlay of Rs. 1,580 million.

Centrally sponsored soil conservation schemes are in operation in the catchments of 21 major river valley projects over 14 States to reduce the premature silting of reservoirs. During Fourth Plan period, about 0·48 million hectares had been treated under this scheme at a cost of Rs. 220 million.

Till March, 1973 about 4,000 hectares had been covered for reclamation of ravine lands in Uttar Pradesh, Madhya Pradesh, Rajasthan and Gujarat and another 2,600 hectares are expected to be covered during 1973-74.

The **All-India Soil and Land Use Survey Organisation,** Pusa Road, New Delhi-110012, is carrying out standard soil surveys in the catchments of 21 river valley projects. Under this scheme, 1·5 million hectares had been treated during the first four years of the Fourth Plan period and another 1·0 million hectares are likely to be covered during 1973-74.

Research Centres: Eight Soil Conservation Research-cum-Training Centres under the jurisdiction of ICAR have been established at the following places:

(1) Ootacamund (Tamil Nadu) for erosion control in the Nilgiri and other hills; (2) Bellary (Karnataka) for soil conservation studies in black soils; (3) Kota (Rajasthan) for erosion control in Chambal & Jamuna ravines; (4) Dehra Dun (U.P.) for studying erosion problem in North-Western Himalayan Region, specially for water-shed management, rational land use, silt reduction in stream flow, afforestation on denuded sites, hill torrent and land slide control; (5) Valsad (in the Gujarat tract) for erosion control in the ravines along rivers in Gujarat; (6) Chandigarh for studying erosion problems in Ambala Sivaliks, specially for rational land use, afforestation in eroded sites, water-shed management, silt reduction in stream flow, hill torrent control etc.; (7) Agra (Yamuna ravines); and (8) Ibrahimpatnam (Andhra) for tackling red soil problems.

In view of the seriousness of the problems of soil erosion, the soil conservation research-cum-training centres are proposed to be reorganised and strengthened in the Central Research Institutes set up during the 5th Plan for further intensification of research and training.

Plant Protection: The plant protection programme included seed treatment, prophylactic spraying, weed control, rat control, control of epidemics, etc. During 1973-74, the gross area benefited is estimated at 63 million hectares as against 52 million hectares in the previous year. During 1973-74, the area covered by aerial spraying was about 0·62 million hectares.

To overcome the shortage of aircrafts, which has been limiting aerial spraying operations, arrangements have been made for the import of fixed wing aircraft and helicopters under a Credit Agreement with the International Development Association. In addition, private operators have been permitted to acquire 9 fixed wing aircrafts from Yugoslavia under the Trade Plan against rupee payment. Under Centrally sponsored schemes, 0·78 million hectares of endemic areas were treated by plant protection measures in 1973-74 as against 0·5 million hectares last year.

Agricultural Machinery: An estimated 200,000 tractors were in use at the end of 1973. Indigenous production of tractors was 18,100 in 1971-72; 20,802 in 1972-73 and 24,399 in 1973-74.

Seventeen units have been licensed with a total capacity of 167,000 tractors per annum. At present, only 8 units are in production.

During the period 1969 to 1973, about 46,997 tractors were imported. During 1973-74, no combine harvestor was imported.

Agricultural Credit: Short and medium term loans advanced to cultivators during 1973-74 are estimated to have reached Rs. 7,500 million compared with Rs. 6,090 million in 1972-73.

Fertilisers: (See Chapter on Fertiliser Industry.)

Small Farmers and Agricultural Labourers — All the 46 Small Farmers Development Agency Projects are functioning. By Feb. 1974, about 2·6 million small farmers and marginal farmers had been identified, of whom 1·35 million were brought under the Co-operative fold. The SFDA helped in arranging institutional credit amounting to a sum of Rs. 150 million for short term loan during 1974 and about Rs. 440 million as medium and long term loans through co-operatives and commercial banks. About 0·14 million minor irrigation works, 38·8 thousand units of milch cattle and a number of poultry and other schemes have been implemented under the programme.

In the 41 marginal farmer project and agricultural labour project, about 0·91 million marginal farmer and 0·27 million agricultural labourers were identified and of these 0·46 million were enrolled as members of cooperatives. The MFAL agencies arranged institutional credit amounting to about Rs. 20 million of short term loans during the year and about Rs. 110 million as medium and long term loans through the cooperatives and commercial banks since inception. About 19 thousand minor irrigation works, 29 thousand units of milch cattle and 16 thousand units of poultry etc. have been established in these projects.

Land Reclamation and Development — Work to reclaim and develop an area of 0·60 million hectares with financial assistance of Rs. 871 million from the Agricultural Refinance Corporation was in progress.

Minor Irrigation — Development of minor irrigation aided by public as well as institutional financing has made substantial progress during 1973-74. About 2·43 million electrical pumpsets, 0·82 million private tubewells, 0·02 million State tubewells and 6·50 million dug-wells were installed. In the Fourth Plan a gross area of about 8·2 million hectares is likely to be benefited through minor irrigation was against 7·2 million fixed for the Plan period. This includes additional facilities serving about 0·75 million hectares created under the Emergency Agricultural Production Programme implemented during 1972-73. The Central Ground Water Board (Jamnagar House, New Delhi-110011) is fully responsible for ground water exploration in the country for agricultural purposes. Under the exploratory programme of the Central Ground Water Board in different States through regular divisions as well as projects, 71 exploratory tubewells, 96 observation tubewells, 15 slim holes and 55 production tube wells had been completed by the end of Dec., 1973. (See also Chapter on Irrigation & Power projects.)

Ceiling on Holdings: — Concerted attempts at evolving a national policy for ceiling on land began in 1969 and following the recommendations of the Central Land Reforms Committee in July 1972, the Chief Ministers of all the States suggested a national policy which has since been given a concrete shape by the Government of India. Keeping in view the varied agro-economic and climatic conditions prevalent in the country, it has been decided to keep the holding of a family between 4·05 and 7·28 hectares of land with assured irrigation capable of yielding two crops in a year; a ceiling of 10·93 hectares for land with facilities of irrigation capable of yielding one crop a year; and a ceiling of 21·85 hectares for all other categories of land. A family unit for the ceiling consists of husband, wife and three minor children. Additional land can be retained by large families subject to a maximum of twice the ceiling. Only the plantations of tea, coffee, cocoa and cardamom have been allowed exemptions from the ceiling. By now all States have passed legislations revising the ceiling laws and the revised level of ceiling in these States are: **Andhra Pradesh** 4·05 — 10·93 hectares of wet land, 14·16 — 21·85 hectares of dry land; **Assam** 50 bighas plus actual area of the orchard subject to a maximum of 15 bighas; **Bihar** 6·07 — 7·28 hectares of irrigated land, 12·14 — 18·21 hectares of other land; **Haryana** 7·25 — 10·92 hectares of irrigated land, 21·80 hectares of other land; **Himachal Pradesh** 4·05 — 6·07 hectares of irrigated land and 12·14 hectares of other land; **Jammu & Kashmir** 3·69 — 6·80 hectares of irrigated land, 5·83 — 8·98 hectares of unirrigated land and 7·77 hectares for Ladakh area; **Karnataka** 4·05 — 21·84 hectares; **Kerala** 4·05 — 8·10 hectares; **Madhya Pradesh** 4·05 — 7·28 hectares; **Punjab** 7 — 11 hectares of irrigated land and 20·5 hectares of unirrigated land; **Rajasthan** 7·28 — 10·92 hectares of irrigated land; **Tamil Nadu** 6·07 — 12·14 hectares; **Uttar Pradesh** 7·30 hectares of irrigated land 10·95 hectares of unirrigated land; **West Bengal** 5 hectares of irrigated land and 7 hectares of other land.

Size of Holding: The average size of holding for the whole of India is 2·63 hectares, but this varies from State to State. Andhra Pradesh 2·87 hectares; Assam 1·46 hectares; Bihar 1·53 hectares; Gujarat 4·49 hectares; Jammu & Kashmir 1·43 hectares; Kerala 0·75 hectares; Madhya Pradesh 3·99 hectares; Tamil Nadu 1·49 hectares; Maharashtra 4·65 hectares; Karnataka 4·11 hectares; Orissa 1·98 hectares; Punjab 3·85 hectares; Rajasthan 5·5 hectares; Uttar Pradesh 1·78 hectares and West Bengal 1·56 hectares.

Out of total estimated number of 50 million rural households possessing operational holding, 35 per cent hold on the average less than 0·20 hectares of land each.

In India most agricultural holdings are not only small but also selected. Hence emphasis has been laid on the consolidation of holdings in the Five-Year-Plan. No law for effecting consolidation of holding has yet been passed in the Andhra Area of Andhra Pradesh, Kerala and Tamil Nadu. The laws of Gujarat, Madhya Pradesh and West Bengal provide for consolidation on a voluntary basis. The other States have passed the necessary legislation for compulsory consolidation. The progress has been uneven in the different States. The work has been completed in Punjab and Haryana. Uttar Pradesh has made good progress and some headway has been made in Maharashtra and Himachal Pradesh. So far about 34·4 million hectares of land have been consolidated.

State-wise progress in consolidation of holdings in million hectares is as follows: Andhra Pradesh 0·04; Bihar 0·07: Haryana 4·13; Himachal Pradesh 0·36; Gujarat 1·03; Jammu & Kashmir 0·03; Karnataka 0·80; Madhya Pradesh 3·18; Maharashtra 7·58; Punjab 4·74; Rajasthan 1·74; and Uttar Pradesh 10·66.

Co-operative Farming: As on the 30th June, 1973, there were nearly 9,732 co-operative farming societies with a membership of 0·268 million and covering an area of 0·488 million hectares. Of these, the number of joint farming societies was 5,123 with a membership of 0·122 million and covering an area of 0·287 million hectares. The number of collective farming societies was 4,609 with a membership of 0·146 million and covering an area of 0·201 million hectares.

AREA AND CLASSIFICATION — 1971–72

(Thousand hectares) (Provisional) (As on 31st October 1974)

State/Union Territory	Geographical area	Area for land utilisation	Forests	Area put to non-agricultural use	Barren and unculturable land	Permanent pastures and other grazing land	Land under miscellaneous tree crops and groves not included in net area sown	Culturable waste land
1	2	3	4	5	6	7	8	9
Andhra Pradesh ..	27,682	27,440	6,240	2,087	2,313	1,028	274	1,042
Assam(c)	7,852	7,795	2,080	768	1,787	234	226	184
Bihar	17,388	17,330	2,797	1,544	1,080	173	201	509
Gujarat(c)	19,598	18,562	1,634	627	4,200	1,019	20	552
Haryana	4,422	4,402	110	294	186	47	2	37
Himachal Pradesh ..	5,567	5,076	2,783(d)	178	116	1,186	40	163
Jammu & Kashmir(f)	22,224	4,523(e)	2,776(d)	286	244	133	112	165
Karnataka	19,177	19,045	2,895	968	861	1,592	311	593
Kerala	3,886	3,859	1,055	276	69	28	121	78
Madhya Pradesh ..	44,284	44,237	14,405	2,081	2,315	3,141	167	2,116
Maharashtra	30,776	30,758	5,417	866	1,802	1,666	207	1,490
Manipur(g)	2,236	2,211	602	26	1,419*	(l)	24	(l)
Meghalaya(c)	2,249	2,249	187	—	1,900	—	—	—
Nagaland(h)	1,653	1,351	266	—	1,023*	—	—	—
Orissa(f)	15,578	15,540	4,973	1,001*	802*	725	431	771
Punjab	5,036	5,031	127	415	198	5	4	80
Rajasthan	34,222	34,287	1,401	1,346	4,705	1,805	9	6,112
Tamil Nadu	13,007	13,008	2,007	1,509	805	229	230	479
Tripura(f)	1,048	1,048	630	45	6	34	86	2
Uttar Pradesh ..	29,441	29,833(s)	4,952(f)	2,033	1,418	78	1,257	1,345
West Bengal(j) ..	8,785	8,852(s)	1,101	(k)	1,272	(l)	607	(l)
Andaman and Nicobar Islands	829	793	740	2	1	3	18	5
Arunachal Pradesh(n)	8,358	5,644	5,154(o)	—	37	—	19	149
Dadra & Nagar Haveli	49	49	21	1	(a)	4	—	—
Delhi	149	148	1	34	16	1	—	3
Goa, Daman and Diu(g)	381	370	105	21	16	1	1	93
Lakshadweep ..	3	3	—	(a)	—	—	(a)	—
Mizoram(p)	2,109	2,092	1,298	—	747	—	—	—
Pondicherry	48	47	—	11	(a)	(a)	2	1
Total	328,048(r)	305,583	65,757	16,419	29,338	13,132	4,369	15,949

Notes :—

(a) Below 500 hectares. (b) Relates to the year 1968-69 except otherwise stated. (c) Relates to the year 1969–70.
(d) Includes forest area under the Control of Forest Deptt. also. (e) Excludes information of area under the unlawful occupation of China and Pakistan. (f) Relates to the year 1970–71. (g) Ad hoc estimates.
(h) Data relate to Garo Hills and U.K. & J. hills distts. of Assam State for the year 1968–69 except otherwise stated.
(i) Data relate to Naga hills district of Assam State for the year 1956–57.
(j) Data relate to the year 1967–68. (k) Included under the head " Barren and unculturable lands ".
(l) Included under the head " Land under miscellaneous tree crops and groves etc."
(m) Included under the head " Fallow land other than current fallows." (n) Relates to the year, 1970–71 is based on Agricultural Census 1970–71. (o) Based on forest statistics bulletin No. 11 issued by the Ministry of Agriculture (Forestry Cell).
(p) Data relate to Mizo hills distt. of Assam State for the year 1969–70 except otherwise stated. (q) Relates to rice crop only.
(r) Included all the districts in respect of Chandigarh for which other data are not available.
* Adjusted. (s) The figures of reporting area in case of Uttar Pradesh and West Bengal are under verification.

AREA AND CLASSIFICATION—1971-72 (*Contd.*)

(Thousand hectares) (Provisional) (As on 31st October 1974)

State/Union Territories	Fallow land other than current fallows	Current fallows	Net area sown	Total cropped area	Area sown more than once	Net irrigated area	Gross irrigated area
1	2	3	4	5	6	7	8
Andhra Pradesh	855	2,332	11,269	12,652	1,383	2,998	3,786
Assam(c)	166	115*	2,235(f)	2,834**	599**	572(a)	572(a)
Bihar	903	1,847	8,276	10,683	2,407	2,384	2,788
Gujarat(c)	392	796*	9,322**	9,933**	611**	1,209	1,307
Haryana	(a)	159	3,567	5,048	1,481	1,565	2,284
Himachal Pradesh ..	2	60	548	901	353	91	159
Jammu & Kashmir(f) ..	11	90	706	861**	155**	264(b)	330
Karnataka	644	850	10,331	10,988	657	1,373	1,598
Kerala	23	24	2,187	2,958	771	439	612
Madhya Pradesh	865	686	18,461	20,892	2,431	1,643	1,705
Maharashtra(f)	1,473*	1,261*	16,576	17,481**	905**	1,344	1,566
Manipur(g)	—	(a)	140	147**	7	65	75
Meghalaya(c)	—	—	162(c)	193	31	37(a)	37(a)
Nagaland(h)	—	—	62	63	1	12	12
Orissa(f)	95	623	6,119	7,042**	923**	1,149	1,624
Punjab	—	126	4,076	5,724	1,648	2,955	4,377
Rajasthan	1,884	1,762	15,263	16,773	1,510	2,173	2,440
Tamil Nadu	540	861	6,348	7,642	1,294	2,710	3,530
Tripura(f)	2	3	240	355**	115**	22	22
Uttar Pradesh	554	899	17,317	23,025	5,708	6,989	8,009
West Bengal(j)	160	(m)	5,712**	7,271	1,559**	1,489(j)	1,541(j)
Andaman and Nicobar Islands	3	2	19	19	(a)	—	—
Arunachal Pradesh(n) ..	118	52	115	130	15	23	24
Dadra and Nagar Haveli	(a)	(a)	23	24	1	(a)	(a)
Delhi	8	9	76	118	42	46	61
Goa, Daman and Diu(g) ..	—	—	133	139	6	8	8
Lakshadweep	—	(a)	3	3	(a)	(a)	(a)
Mizoram(p)	—	—	47**	40**	1**	2(a)	2(a)
Pondicherry	(a)	1	32	55	23	26	42
Total	8,696	12,558	139,365	164,002	24,637	31,593	38,592

Notes :—

(*a*) Below 500 hectares. (*b*) Relates to the year 1968-69 except otherwise stated. (*c*) Relates to the year 1969–70.
(*d*) Includes forest area under the Control of Forest Deptt. also.
(*e*) Excludes information of area under the unlawful occupation of China and Pakistan. (*f*) Relates to the year 1970–71.
(*g*) Ad hoc estimates. (*h*) Data relate to Garo Hills and U.K. & J. Hills distts. of Assam State for the year 1968-69 except otherwise stated. (*i*) Data relate to Naga hills district of Assam State for the year 1956–57.
(*j*) Data relate to the year 1967–68. (*m*) Included under the head " Fallow land other than current fallows".
(*n*) Relates to the year 1970–71 is based on figures collected for Agricultural census 1970–71.
(*p*) Data relate to Mizo hills distt. of Assam State for the year 1969–70 except otherwise stated.
(*q*) Relates to rice crop only. * Adjusted. ** Estimated. N. A.—Not available.

STATEWISE ESTIMATES OF AREA AND PRODUCTION OF PRINCIPAL CROPS— 1973–74

Area : Thousand hectares ; Production : Thousand tonnes

States Union Territories	Rice		Wheat		Jowar		Maize		Bajra	
	Area	Production	Area	Production	Area	Production	Area	Production	Area	Production
Andhra Pradesh	3,258·3	5,352·2	23·2	13·0	2,767·0	1,322·0	272·7	372·0	561·6	347·7
Assam	2,077·8	2,066·3	41·7	48·2	—	—	13·8	7·6	—	—
Bihar	5,120·7	4,140·2	1,578·0	1,650·0	9·3	3·4	975·7	942·9	15·6	8·2
Gujarat	446·2	467·9	521·4	905·9	1,000·8	431·7	258·5	193·6	1,826·3	1,312·4
Haryana	292·0	540·0	1,176·0	1,810·0	186·0	55·0	118·0	119·0	951·0	689·0
Himachal Pradesh	96·8	117·5	297·0	282·8	—	—	247·8	435·5	—	—
Jammu and Kashmir ..	237·1	460·1	188·9	174·3	1·4	0·6	267·1	315·8	15·2	8·2
Karnataka	1,141·6	2,068·8	347·9	188·7	2,215·1	1,697·0	150·8	453·5	449·4	215·5
Kerala	876·7	1,353·9	—	—	1·5	0·6	—	—	—	—
Madhya Pradesh	4,468·1	3,537·3	3,374·6	2,601·3	2,116·0	1,156·5	621·7	417·2	226·6	214·4
Maharashtra	1,359·1	1,640·5	963·1	536·0	6,145·8	2,869·2	46·0	39·0	2,233·9	855·5
Manipur	169·8	238·6	0·1	0·1	—	—	9·3	27·2	—	—
Meghalaya	101·6	99·4	0·4	0·2	—	—	15·0	8·0	—	—
Nagaland	63·0	36·5	—	—	—	—	10·0	6·1	—	—
Orissa	4,752·8	4,439·1	49·3	82·7	26·3	17·4	78·1	62·1	4·7	2·0
Punjab	508·0	1,163·0	2,386·0	5,257·0	3·9	2·3	549·0	738·0	133·0	128·0
Rajasthan	132·2	117·6	1,671·9	1,789·2	1,106·8	386·1	836·8	343·1	5,713·5	2,181·4
Tamil Nadu	2,749·0	5,595·0	1·0	0·4	669·6	562·5	15·1	16·2	429·0	296·9
Tripura	298·8	362·0	0·4	0·8	—	—	—	—	—	—
Uttar Pradesh	4,467·9	3,840·4	6,054·5	6,014·4	704·0	482·8	1,484·1	1,100·5	1,063·0	808·2
West Bengal	5,152·6	5,798·9	330·1	629·9	0·8	0·4	46·9	38·3	0·2	0·1
Andaman and Nicobar Islands	9·0	11·7	—	—	—	—	—	—	—	—
Arunachal Pradesh	62·3	55·0	—	—	—	—	—	—	—	—
Chandigarh	—	—	—	—	—	—	—	—	—	—
Dadra & Nagar Haveli ..	9·6	14·8	—	—	0·5	0·2	—	—	—	—
Delhi	2·2	1·8	51·1	87·6	9·4	3·7	1·5	0·8	22·4	17·0
Goa, Daman and Diu ..	51·6	88·2	—	—	—	—	—	—	—	—
Lakshadweep	—	—	—	—	—	—	—	—	—	—
Mizoram	74·7	57·5	—	—	0·1	0·2	2·8	6·2	—	—
Pondicherry	31·1	77·5	—	—	—	—	—	—	1·0	2·0
All India	38,010·6	43,741·7	19,056·6	22,072·5	16,964·3	8,991·6	6,020·7	5,642·6	13,646·4	7,086·5

STATEWISE ESTIMATES OF AREA AND PRODUCTION OF PRINCIPAL CROPS — 1973–74 (*Contd.*)

Area : Thousand hectares ; Production : Thousand tonnes

States Union Territories	Ragi		Small Millets		Barley		Total Cereals		Gram	
	Area	Production	Area	Production	Area	Production	Area	Production	Area	Production
Andhra Pradesh	242·1	233·7	757·9	309·3	—	—	7,882·8	7,949·9	71·1	23·3
Assam	—	—	8·6	4·4	—	—	2,141·9	2,126·5	3·6	1·7
Bihar	167·7	86·5	183·6	67·8	189·0	107·0	8,249·6	7,006·0	264·0	114·0
Gujarat	50·0	46·6	135·8	101·9	6·1	3·3	4,245·1	3,463·3	59·2	54·1
Haryana	—	—	—	—	152·0	136·0	2,875·0	3,349·0	991·0	451·0
Himachal Pradesh	12·4	9·8	27·3	15·7	40·3	46·1	721·6	907·4	30·9	14·6
Jammu and Kashmir ..	—	—	20·9	12·2	15·1	9·4	745·7	980·6	2·7	1·1
Karnataka	1,007·3	882·8	418·0	147·5	—	—	5,730·1	5,653·8	157·3	69·3
Kerala	5·0	4·4	5·2	3·1	—	—	888·4	1,362·0	—	—
Madhya Pradesh	19·5	5·2	1,580·9	394·0	182·0	150·9	12,589·4	8,476·8	1,764·2	976·3
Maharashtra	209·4	203·5	206·5	101·1	7·0	5·1	11,170·8	6,249·9	400·3	150·1
Manipur	—	—	—	—	—	—	179·2	265·9	—	—
Meghalaya	—	—	1·5	1·0	—	—	118·5	108·6	0·1	0·1
Nagaland	—	—	19·1	11·5	—	—	92·1	54·1	—	—
Orissa	165·1	140·0	169·1	81·9	—	—	5,245·4	4,825·2	23·9	12·3
Punjab	0·8	0·1	0·1	0·1	104·0	89·0	3,684·8	7,377·5	344·0	307·0
Rajasthan	—	—	71·3	15·3	589·2	592·0	10,121·7	5,424·7	1,512·9	719·3
Tamil Nadu	281·2	286·9	408·2	309·9	—	—	4,553·1	7,067·8	9·9	6·0
Tripura	—	—	—	—	—	—	299·2	362·8	0·1	—
Uttar Pradesh	212·0	210·7	510·3	284·1	1,260·7	1,139·0	15,756·5	13,880·1	1,955·9	1,048·5
West Bengal	7·8	6·4	7·3	3·4	66·1	47·1	5,611·8	6,524·5	94·3	53·9
Andaman and Nicobar Islands	—	—	—	—	—	—	9·0	11·7	—	—
Arunachal Pradesh	—	—	—	—	—	—	62·3	55·0	—	—
Chandigarh	—	—	—	—	—	—	—	—	—	—
Dadra & Nagar Haveli ..	2·7	2·2	—	—	—	—	12·8	17·1	—	—
Delhi	—	—	—	—	3·0	2·0	89·6	112·9	5·4	3·2
Goa, Daman & Diu	6·3	6·4	—	—	—	—	57·9	94·6	—	—
Lakshadweep	—	—	—	—	—	—	—	—	—	—
Mizoram	—	—	—	—	—	—	77·5	63·7	—	—
Pondicherry	2·9	6·2	—	—	—	—	35·1	85·9	—	—
All India	2,392·2	2,131·4	4,531-6	1,864·2	2,624·5	2,326·9	103,246·9	93,857·4	7,690·9	4,005·8

STATEWISE ESTIMATES OF AREA AND PRODUCTION OF PRINCIPAL CROPS — 1973-74

Area : Thousand hectares ; Production : Thousand tonnes

States/Union Territories	Tur		Total Pulses		Total Foodgrains		Cotton		
	Area	Production	Area	Production	Area	Production	Area	Production ('000 bales of 180 kgs. each)	Production of Cotton Kapas
Andhra Pradesh	205·9	38·6	1,359·5	380·8	9,242·3	8,330·7	412·5	360·7	194·8
Assam	5·1	3·6	95·0	44·7	2,236·9	2,171·2	3·4	1·4	0·8
Bihar	177·0	76·0	1,519·1	673·1	9,768·7	7,679·1	0·9	3·2	1·7
Gujarat	95·5	41·9	420·4	165·2	4,665·5	3,628·5	1,863·3	1,612·8	870·0
Haryana	7·2	3·7	1,093·5	489·5	3,968·5	3,838·5	258·0	450·0	243·0
Himachal Pradesh	0·6	0·3	77·6	29·6	799·2	937·0	0·5	0·7	0·4
Jammu & Kashmir	—	—	51·1	29·8	796·8	1,010·4	0·5	1·0	0·5
Karnataka	247·6	129·5	1,206·3	497·4	6,936·4	6,151·2	998·0	625·7	337·9
Kerala	4·9	1·1	37·4	13·7	925·8	1,375·7	7·5	8·6	4·6
Madhya Pradesh	512·0	294·1	4,493·2	1,935·7	17,082·6	10,412·5	675·6	187·7	102·8
Maharashtra	627·9	363·5	2,763·5	986·5	13,934·3	7,236·4	2,218·4	940·6	507·9
Manipur	—	—	—	—	179·2	265·9	—	—	—
Meghalaya	0·1	0·1	1·4	0·8	119·9	109·4	8·5	3·6	1·9
Nagaland	—	—	3·1	1·5	95·2	55·6	—	—	—
Orissa	54·8	30·0	922·2	484·5	6,167·6	5,309·7	0·8	0·8	0·4
Punjab	4·1	2·1	418·9	342·7	4,103·7	7,720·2	499·0	961·0	518·9
Rajasthan	31·0	13·7	3,581·5	1,291·5	13,703·2	6,716·2	302·1	283·6	153·1
Tamil Nadu	115·4	46·8	707·5	190·2	5,260·6	7,258·0	303·2	340·7	184·4
Tripura	0·4	0·2	2·7	0·9	301·9	363·7	2·4	2·4	1·3
Uttar Pradesh	526·8	295·7	3,476·7	1,849·8	19,233·2	15,729·9	41·9	29·1	15·7
West Bengal	18·1	22·5	639·0	340·1	6,250·8	6,864·6	3·0	1·2	0·6
Andaman and Nicobar Islands	—	—	—	—	9·0	11·7	—	—	—
Arunachal Pradesh	—	—	—	—	62·3	55·0	—	—	—
Chandigarh	—	—	—	—	—	—	—	—	—
Dadra & Nagar Haveli	1·3	0·6	2·9	1·2	15·7	18·4	—	—	—
Delhi	0·4	0·1	8·9	4·4	98·5	117·3	0·6	0·5	0·3
Goa, Daman & Diu	—	—	—	—	57·9	94·6	—	—	—
Lakshadweep	—	—	—	—	—	—	—	—	—
Mizoram	—	—	0·1	0·1	77·6	63·8	0·4	0·7	0·4
Pondicherry	—	—	—	—	35·1	85·9	0·9	3·2	1·7
All India	2,576·1	1,364·1	22,881·5	9,753·7	126,128·4	103,611·1	7,601·4	5,819·2	3,144·0

STATEWISE ESTIMATES OF AREA AND PRODUCTION OF PRINCIPAL CROPS — 1973-74 (*Contd.*)

Area : Thousand hectares ; Production : Thousand tonnes

States/Union Territories	Jute		Mesta		Sann hemp		Groundnut		Castorseed		Sesamum seed	
	Area	Production ('000 bales of 180 kgs. each)	Area	Production ('000 bales of 180 kgs. each)	Area	Production	Area	Production	Area	Production	Area	Production
Andhra Pradesh	—	—	101·8	419·3	5·8	1·5	1,344·2	1,321·1	384·9	121·3	239·8	44·0
Assam	149·0	1,135·8	12·8	47·9	—	—	—	—	1·7	0·7	10·6	5·2
Bihar	144·0	800·8	38·0	201·0	8·0	3·0	4·2	3·4	6·0	9·9	24·3	7·0
Gujarat	—	—	—	—	0·8	0·6	1,581·6	1,241·4	57·1	56·1	103·3	30·9
Haryana	—	—	—	—	3·6	1·0	7·2	6·2	—	—	6·3	2·3
Himachal Pradesh	—	—	—	—	0·2	—	1·9	1·7	—	—	7·1	1·8
Jammu & Kashmir	—	—	—	—	0·9	0·2	—	—	—	—	7·0	2·1
Karnataka	—	—	20·1	33·7	2·9	0·7	905·5	637·8	31·0	17·5	74·2	21·8
Kerala	—	—	—	—	—	—	17·2	18·0	—	—	11·8	3·5
Madhya Pradesh	—	—	17·4	26·8	20·7	7·3	435·2	215·9	3·3	1·2	289·5	50·5
Maharashtra	—	—	63·7	99·0	12·2	6·4	656·7	485·5	4·0	1·0	153·3	38·9
Manipur	—	—	—	—	—	—	—	—	—	—	—	—
Meghalaya	7·1	39·6	4·7	16·8	—	—	—	—	—	—	0·4	0·2
Nagaland	—	—	—	—	—	—	—	—	—	—	0·6	0·3
Orissa	57·3	401·1	32·7	191·0	6·3	4·4	90·1	122·3	27·1	22·6	97·4	49·7
Punjab	—	—	—	—	3·8	1·1	152·0	147·0	—	—	18·6	6·7
Rajasthan	—	—	0·4	0·2	10·7	4·6	242·2	141·4	1·7	0·4	475·9	59·0
Tamil Nadu	—	—	0·1	0·5	0·6	0·4	1,106·5	1,162·9	9·8	4·1	125·6	40·0
Tripura	7·9	49·2	10·6	60·4	—	—	—	—	—	—	2·1	0·7
Uttar Pradesh	8·6	76·5	—	—	54·9	17·3	352·8	286·4	1·0	0·4	693·9	113·3
West Bengal	418·5	3,673·0	69·1	364·5	1·4	1·3	—	—	—	—	14·9	7·5
Andaman and Nicobar Islands	—	—	—	—	—	—	—	—	—	—	—	—
Arunachal Pradesh	—	—	—	—	—	—	—	—	—	—	—	—
Chandigarh	—	—	—	—	—	—	—	—	—	—	—	—
Dadra & Nagar Haveli	—	—	—	—	—	—	—	—	—	—	—	—
Delhi	—	—	—	—	—	—	—	—	—	—	—	—
Goa, Daman & Diu	—	—	—	—	—	—	—	—	—	—	—	—
Lakshadweep	—	—	—	—	—	—	—	—	—	—	—	—
Mizoram	—	—	—	—	—	—	—	—	—	—	1·2	0·7
Pondicherry	—	—	—	—	—	—	3·0	7·4	—	—	0·6	0·3
All India	792·4	6,176·0	371·4	1,461·1	139·5	49·8	6,900·3	5,798·4	528·5	235·2	2,358·4	46·4

STATEWISE ESTIMATES OF AREA AND PRODUCTION OF PRINCIPAL CROPS — 1973-74 (*Contd.*)

Area : Thousand hectares ; Production : Thousand tonnes

States/Union Territories	Rapeseed & Mustard		Linseed		Total five major oilseeds		Sugarcane		
	Area	Production	Area	Production	Area	Production	Area	Production (Cane)	Production (Gur)
Andhra Pradesh	0·6	0·2	23·5	3·6	1,993·0	1,490·2	153·5	12,018·6	1,342·7
Assam	165·4	90·5	2·4	1·0	180·1	97·4	39·2	1,583·6	150·1
Bihar	93·0	43·0	82·0	26·0	209·5	88·4	148·0	5,157·0	515·7
Gujarat	54·7	31·2	—	—	1,796·7	1,359·6	44·4	2,227·1	222·7
Haryana	168·0	52·0	0·5	0·2	182·0	60·7	150·0	5,960·0	596·0
Himachal Pradesh	5·1	1·7	6·8	0·3	20·9	5·5	3·4	47·6	4·8
Jammu and Kashmir	25·3	19·5	5·6	4·6	37·9	26·2	1·1	13·5	1·3
Karnataka	2·5	0·6	48·1	14·6	1,062·2	692·3	109·1	9,157·7	915·8
Kerala	—	—	—	—	29·0	21·5	9·5	513·5	51·3
Madhya Pradesh	218·9	104·6	697·6	173·0	1,644·5	545·2	45·7	1,252·0	125·2
Maharashtra	4·2	0·8	222·4	45·3	1,040·6	571·5	161·1	12,673·0	1,385·6
Manipur	—	—	—	—	—	—	—	—	—
Meghalaya	5·0	3·1	—	—	5·4	3·3	0·2	7·0	0·7
Nagaland	1·4	0·6	—	—	2·0	0·9	1·4	39·2	3·9
Orissa	74·0	43·9	19·3	8·0	307·9	246·5	43·0	2,592·0	259·2
Punjab	174·1	132·6	2·4	1·1	347·1	287·4	112·0	5,970·0	597·0
Rajasthan	375·9	111·7	86·7	26·5	1,182·4	339·0	40·1	1,939·8	194·0
Tamil Nadu	0·8	0·2	—	—	1,249·7	1,207·2	149·1	13,594·8	1,372·5
Tripura	3·6	1·4	—	—	5·7	2·1	2·0	67·1	6·7
Uttar Pradesh	1,931·7	1,010·1	622·4	152·4	3,601·8	1,562·6	1,472·7	61,136·4	6,113·6
West Bengal	122·6	44·3	56·4	14·1	193·9	65·9	32·5	1,643·7	164·4
Andaman and Nicobar Islands	—	—	—	—	—	—	—	—	—
Arunachal Pradesh	—	—	—	—	—	—	—	—	—
Chandigarh	—	—	—	—	—	—	—	—	—
Dadra & Nagar Haveli	—	—	—	—	—	—	—	—	—
Delhi	1·3	0·2	—	—	1·3	0·2	1·0	5·7	0·6
Goa, Daman & Diu	—	—	—	—	—	—	0·8	50·0	4·0
Lakshadweep	—	—	—	—	—	—	—	—	—
Mizoram	—	—	—	—	1·2	0·7	0·9	30·2	3·0
Pondicherry	—	—	—	—	3·6	7·7	1·7	153·0	15·3
All India	3,428·1	1,692·2	1,876·1	470·7	15,091·4	8,682·0	2,722·4	137,832·5	14,046·1

STATEWISE ESTIMATES OF AREA AND PRODUCTION OF PRINCIPAL CROPS — 1973-74 (*Contd.*)

Area : Thousand hectares ; Production : Thousand tonnes

States/Union Territories	**Dry Chillies**		**Dry Ginger**		**Turmeric***		**Black Pepper**		**Banana***		**Tapioca**	
	Area	Production	Area	Production	Area	Production	Area	Production	Area	Production	Area	Production
Andhra Pradesh	172·3	108·8	0·60	0·60	18·3	37·7	—	—	13·7	108·8	4·3	17·7
Assam	9·1	5·6	—	—	5·2	3·1	—	—	19·5	255·8	0·5	2·2
Bihar	21·3	24·4	—	—	8·4	16·7	—	—	7·4	39·0	—	—
Gujarat	14·0	8·7	0·78	0·59	—	—	—	—	13·8	353·4	—	—
Haryana	6·8	5·7	0·02	0·04	—	—	—	—	—	—	—	—
Himachal Pradesh	0·5	0·1	1·95	0·66	—	—	—	—	—	—	—	—
Jammu & Kashmir	0·8	0·9	—	—	—	—	—	—	16·1	127·0	—	—
Karnataka	103·9	36·1	1·24	1·98	0·9	1·9	3·19	0·97	—	—	0·9	11·1
Kerala	3·2	2·7	12·04	26·68	4·3	4·6	118·25	25·22	47·3	357·9	304·8	5,692·4
Madhya Pradesh	41·1	5·8	1·38	1·28	0·4	0·5	—	—	2·5	50·2	—	—
Maharashtra	163·2	95·9	0·45	0·33	11·0	14·4	—	—	33·0	695·6	—	—
Manipur	—	—	—	—	—	—	—	—	—	—	—	—
Meghalaya	1·2	1·1	—	—	1·4	1·0	—	—	2·8	3·4	1·9	9·0
Nagaland	1·3	0·8	—	—	—	—	—	—	—	—	—	—
Orissa	37·1	26·2	1·92	1·99	12·8	15·4	—	—	13·7	107·6	—	—
Punjab	17·5	18·5	—	—	—	—	—	—	—	—	—	—
Rajasthan	30·8	19·7	0·05	0·05	0·2	0·2	0·26	0·06	—	—	44·8	370·7
Tamil Nadu	74·8	109·2	0·69	0·62	9·4	35·7	—	—	46·9	1,032·7	0·1	0·6
Tripura	1·0	0·3	0·34	0·36	0·7	0·7	—	—	2·3	17·8	—	—
Uttar Pradesh	20·9	7·5	—	—	0·5	0·7	—	—	0·5	9·4	—	—
West Bengal	10·5	8·9	1·72	1·91	—	—	—	—	—	—	—	—
Andaman and Nicobar Islands ..	—	—	—	—	—	—	—	—	0·4	2·0	—	—
Arunachal Pradesh	—	—	—	—	—	—	—	—	—	—	—	—
Chandigarh	—	—	—	—	—	—	—	—	—	—	—	—
Dadra & Nagar Haveli	—	—	—	—	—	—	—	—	—	—	—	—
Delhi	0·7	0·8	—	—	—	—	—	—	—	—	—	—
Goa, Daman & Diu	—	—	—	—	—	—	—	—	—	—	—	—
Lakshadweep	—	—	—	—	—	—	—	—	—	—	—	—
Mizoram	0·2	0·2	0·66	1·13	0·6	0·2	—	—	0·3	1·9	—	0·1
Pondicherry	0·1	0·2	—	—	—	—	0·01	0·01	—	—	0·6	8·6
All India	732·3	488·1	23·84	38·22	74·1	132·6	121·71	26·26	220·2	3,189·5	357·9	6,312·4

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* Figures relate to 1972-73.

STATEWISE ESTIMATES OF AREA AND PRODUCTION OF PRINCIPAL CROPS—1973-74 (Contd.)
Area : Thousand hectares ; Production : Thousand tonnes

States/Union Territories	Potato*		Tobacco	
	Area	Production	Area	Production
Andhra Pradesh	0·3	0·7	221·2	213·1
Assam	27·4	131·2	7·1	5·5
Bihar	105·0	783·6	13·3	5·4
Gujarat	3·3	79·3	90·6	131·0
Haryana	5·3	88·8	0·5	0·5
Himachal Pradesh	15·3	64·7	0·5	0·2
Jammu & Kashmir	1·3	5·6	0·3	0·4
Karnataka	9·2	49·2	37·4	18·4
Kerala	—	—	0·7	1·4
Madhya Pradesh	16·2	145·0	2·4	1·2
Maharashtra	9·1	32·2	13·1	6·5
Manipur	—	—	—	—
Meghalaya	15·7	70·8	0·4	0·3
Nagaland	—	—	—	—
Orissa	6·9	35·9	14·5	12·8
Punjab	15·4	202·8	—	0·1
Rajasthan	2·2	6·4	4·1	3·2
Tamil Nadu	12·3	103·2	14·2	21·0
Tripura	2·6	20·2	1·2	0·4
Uttar Pradesh	204·3	1,701·3	10·0	8·8
West Bengal	75·7	948·8	14·1	10·5
Andaman & Nicobar	—	—	—	—
Arunachal Pradesh	—	—	—	—
Chandigarh	—	—	—	—
Dadra & Nagar Haveli	—	—	—	—
Delhi	0·4	2·9	—	0·1
Goa, Daman & Diu	—	—	—	—
Lakshadweep	—	—	—	—
Mizoram	0·1	0·5	0·9	0·6
Pondicherry	—	—	—	—
All India	528·0	4,473·1	446·5	441·4

* Figures relate to 1972-73

FERTILISER INDUSTRY

IT was only in the Third Plan that the industry received a big boost. An allocation of Rs. 11,500 million has been included in the Fifth Plan to cater to both the continuing schemes, which are under different stages of implementation, and new projects. With the implementation of the schemes, which are either under consideration or which have been approved for implementation, the total capacity developed would be 4,160,000 tonnes of Nitrogen and 1,230,000 tonnes of P_2O_5. Most of the capacity developed in the fertilizer field is based on naphtha but in view of the increasing pressure on naphtha, Government has, as a matter of policy, decided that the plants to be set up hereafter should be based either on coal or fuel oil/heavy petroleum fractions depending on the suitability of the locations, availability of raw materials, demand considerations, etc. In pursuance of this policy, three large sized coal-based plants are under implementation at Talcher, Ramagundam and Korba. Each of these plants would be consuming about 1 million tonnes of coal per annum.

Consumption of fertilisers increased only marginally in 1972–73 and 1973–74 due to acute shortage of fertilisers. Due to power cuts, labour unrest, etc., domestic production in 1973–74 did not register any increase over 1972–73. Large imports have also not been possible due to tight supply situation in the world market, oil/energy crisis (see Chapter on Energy Crisis) and high prices in the international market. Despite this, promotional efforts to create awareness among the farmers about the need for the efficient use of available fertilisers were stepped up by the Government Extension Agencies and the indigenous producers. The number of dealer outlets increased from 81,000 in 1971–72 to 86,000 in 1973–74 with a view to better serve the farmers in the areas.

The ban has been imposed on inter-state movement of fertilizer without prior permission of the Central/State Government to ensure that fertiliser allotted to the State is used therein and not diverted to another State. Statutory control on selling prices of urea, ammonium sulphate, calcium ammonium nitrate and the formal control on ex-factory prices of super-phosphate continued during 1973–74. The prices of straight nitrogenous fertilisers were increased in October, 1973, because of the increase in the prices of Naphtha. Price of super phosphate had to be revised upward substantially due to the sharp rise in the import price and freight hike of the two essential raw-materials — rock and sulphur — needed to manufacture super-phosphate.

Location of the Industry : There are more than 71 fertiliser factories of various sizes in the private and public sectors. Many of these, however, make fertiliser as a subsidiary of their main products.

In the private sector there are 46 public limited concerns manufacturing fertilisers as the main product. 17 of these manufacture nitrogenous fertilisers and 29 phosphatic fertilisers.

The State-wise break-up of the nitrogenous fertiliser manufacturing units is as follows :

There are 2 in Uttar Pradesh; one each in Andhra Pradesh, Assam, Bihar, Gujarat, Maharashtra, Orissa, Rajasthan, West Bengal and 4 in Tamil Nadu.

The State-wise break-up of the phosphatic fertiliser manufacturing units is :

Maharashtra 5, Tamil Nadu 5, Andhra Pradesh 4, Gujarat 4, Karnataka 2, West Bengal 2, Rajasthan 2, Uttar Pradesh 2, and one each in Delhi, Assam and Madhya Pradesh.

Growth of Fertiliser Industry

Period	Capacity as at the end of in '000 tonnes		Investments (Rs. million)		Total
	N	P_2O_5	Public sector	Private sector	
1. Upto the end of March 1951	16·5	19·8	180	20	200
2. 1951–56	98·8	45·3	370	30	400
3. 1956–61	238·4	82·5	570	30	600
4. 1961–66	542·9	213·7	1,450	300	1,750
5. 1966–67	1,024·0	412·0	1,000	1,500	2,500
6. 1969–74	5,150·0	233·0	7,500	5,500	13,000
7. 1974–79	7,750–0	420·0	—	—	9,000
8. 1979–81	9,250·0	480·0	—	—	5,500

Source : "Fertiliser Scene—Fourth Plan "Proceedings No. 2 of the Fertiliser Institute of the Fertilizer Association of India.

Private Sector : A letter of intent hs been issued to Messrs. Shriram Chemicals Ltd., for expansion of their plant at Kota to a capacity of 1,350 tonnes of ammonia per day. Another letter of intent has also been issued to Messrs. Nagarjuna Fertilizers for setting up a fertilizer plant at Kakinada, a grass root site in Andhra Pradesh, with a capacity of 900 tonnes of ammonia per day. Government have also approved a project sponsored by the Maharashtra Co-operative Fertilizer Co. for production of 66,000 tonnes of ammonia near Bombay. A major part of the ammonia produced would be utilized for direct application to the soil instead of being fixed in the form of solid fertilizer. This is the first project of the type that has been sanctioned. Certain other proposals for the development of additional fertilizer capacity either by way of expansion of the existing plants or by setting up new ones are under consideration.

Public sector : Following are the public sector units :—

Fertiliser Corporation of India Ltd., which has 5 units — one each at Namrup (Assam), Sindri (Bihar), Nangal (Punjab), Trombay (Maharashtra) and Gorakhpur (U.P.) (Projects under construction of FCI are Durgapur (West Bengal) and Barauni (Bihar) to commence production in 1974, Talcher (Orissa) and Ramagundam (Andhra Pradesh) in 1975 and Korba (Madhya Pradesh) in 1978.

Fertilisers and Chemicals, Travancore Ltd. (FACT), Udyogmandal (Alwaye) Kerala. The Cochin Fertiliser factory at Ambalamedu set up by FACT and FCI at a cost of Rs. 450 million began production in April 1973. It is implementing a major project in Cochin (Cochin Phase II) with the assistance of the World Bank and this project is expected to be completed in the first quarter of 1975.

Madras Fertilisers Ltd., at Madras (Tamil Nadu) with an annual capacity of 164,000 tonnes of Nitrogen and 85,000 tonnes of phosphates commenced production in Nov. '71. It is a joint venture in which the Govt. of India holds 51 per cent of the equity capital while the remaining 49 per cent is equally shared between Amoco India incorporated of USA and the National Iranian Oil Co. of Iran.

Haldia Fertiliser Factory, Haldia (West Bengal) when completed will have an annual capacity of 165,000 tonnes of Urea, 500,000 tones of Nitro-Phosphates, 60,000 tonnes of soda ash and 41,250 tonnes of methenol. The project is expected to go into production by October '76. In addition, a large scale expansion and modernisation scheme known as the Sindri Modernisation Scheme has been approved. The scheme when completed would increase the nitrogen capacity at Sindri by 129,000 tonnes per annum and would be based on heavy petroleum fractions as feed stock in lieu of coke/coke oven gas being used at present.

Indian Farmers' Fertilisers Co-operative (IFFCO), a nitrogen complex at Kalol, Gujarat was expected to begin production in June, 1974. The IFFCO will produce NPK fertilisers at Kandla and ammonia at another factory in Kalol.

Bihar State Superphosphate Factory, at Dhanbad is the only unit in the State Sector at present. Bihar State Superhphosphate factory, Sindri, has also come up during 1973-74.

Production & capacity : In terms of production and capacity, fertiliser industry, as a whole, has made rapid strides. Indigenous production in this sector meets about 53 per cent of the demand. During the First Plan period, only ammonium sulphate fertilisers were produced. It was during the Second Plan period that the product diversification was introduced in the form of ammonium sulphate nitrate, urea and calcium ammonium nitrate. Even then a sizable portion was accounted for by ammonium sulphate. In the Third Plan and subsequent annual plan periods urea and calcium ammonium nitrate claimed a lion's share of total production.

In the Fourth Plan, a variety of nitrogenous, phosphatic and complex fertilisers were produced. These included urea, ammonium sulphate, calcium ammonium nitrate, ammonium sulphate nitrate, ammonium chloride, single superphosphate, triple super phosphate, ammonia phosphate sulphate, diamonium phosphate and NPK fertilisers.

Nitrogenous Fertilisers: Originally, the entire capacity of nitrogenous fertilisers was confined to the public sector. In 1960-61, private sector came with a small share. Out of the nine units accounting for a production of 98,000 tonnes, 6 were public sector units accounting for about 89,000 tonnes of N and the rest were private sector units. The total number of producing units rose from 9 in 1960-61 to 13 in 1965-66 and 19 in 1969-70. In 1973-74, it rose to 20 with an installed capacity of 811,000 tonnes in terms of nitrogen.

The number of public sector units stood at 11 in 1969-70 accounting for over 58 per cent of the aggregate production. The public sector predominated in both capacity and production till 1965-66. With the removal of controls in 1965, the industry witnessed the entry of private sector in a big way. The growth of private sector units in terms of size and production in nitrogenous fertilisers (in terms of plant nutrient N) in comparison with the growth in public sector is shown below.

	Private Sector			Public Sector			Total	
Year	No. of units	Production ('000 tonnes)	Share of Production	No. of units	Production ('000 tonnes)	Share	No. of unit	Production ('000 tonnes)
1965–66 ..	4	15	6·4	9	218	93·6	13	233
1968–69 ..	7	142	26·2	11	401	73·8	18	543
1969–70 ..	8	298	41·6	11	418	58·4	19	716
1970–71 ..	8	451	54·3	11	379	45·7	19	830
1971–72 ..	8	509	53·5	12	443	46·5	20	952
1972–73 ..	8	567	53·5	12	403	46·5	20	1,060
1973–74 ..	9	527	49·7	14	533	50·3	23	1,060

The total installed capacity of nitrogenous fertiliser industry (in terms of plant nutrient-N) as at the end of 1973-74 was of the order of 1·939 million tonnes. The share of public sector unit was 1,128,000 tonnes, 58 (per cent). When the projects under implementation are completed, the public sector will dominate the scene by controlling 69 per cent.

The capacity under implementation stage is estimated at 2·222 million tonnes, making a total of 4·161 million tonnes. In addition to this, the capacity approved in principle, amounted to 2·350 million tonnes. The Fifth Five Year Plan has placed a target of 6·511 million tonnes in terms of capacity and 3·530 million tonnes in terms of production of nitrogenous fertilisers.

Taking into consideration the slow rate of progress, and the large gestation period, the industry will be able to attain a total capacity of only 2·6 million tonnes by 1978–79. Thus, a shortfall of 3·91 million tonnes in capacity is on the card. This is confirmed from the slow progress of the projects under implementation in both the public and private sectors. The break-up of the existing capacity in both the sectors as well as that under implementation stage is set out below.

Name of Factory	Capacity in terms of N ('000 tonnes)
PROJECTS IN PRODUCTION	
A. Public Sector	
1. FCI	
(*a*) Sindri	90
(*b*) Nangal	80
(*c*) Trombay	81
(*d*) Gorakhpur	80
(*e*) Namrup	45
2. FACT (Alwaye)	82
3. Neyveli lignite	70
4. Hindustan Steel (Rourkela) ..	120
5. Madras Fertiliser	164
6. Others (from Coke Oven plants)	12
7. Durgapur FACT	152
8. Cochin (FACT)	152
TOTAL	1,128

Name of Factory	Capacity in terms of N ('000 tonnes)
B. Private Sector	
1. G.S.F.C., Gujarat	216
2. IEL, Kanpur	200
3. DCM, Kota	110
4. Coromandel	80
5. E. I. D. Parry	16
6. New Central Jute	10
7. Others (from Coke Oven)	8
8. Goa	171
Total	811
Total capacity in production (A + B)	1,939
Total capacity under implementation (A + B)	2,222

Name of Factory	Capacity in terms of N ('000 tonnes)
PROJECTS UNDER IMPLEMENTATION	
A. Public Sector	
Namrup Expn.	152
Barauni	152
IFFCO	215
Talcher	228
Ramagundum	228
Korba	228
Trombay Expn.	32
Haldia	152
Cochin Phase II	40
Gorakhpur Expn.	51
Nangal Expn.	152
Sindri Modernisation	129
	1,759
B. Private Sector	
Mangalore	160
Vizag Expn.	3
Tata Corporation	258
Kota Expn.	42
	463

Phosphatic Fertilisers: In sharp contrast with the nitrogenous fertiliser industry, the phosphatic fertilisers were largely confined to the private sector as will be seen from the table below and production was accounted for by single superphosphates.

Year		Private Sector			Public Sector		Total	
	No. of Unit	Production ('000 tonnes)	Share	No. of Unit	Production ('000 tonnes)	Share	No. of unit	Production ('000 tonnes)
1965–66 ..	22	90	81·1	6	21	18·9	28	111
1968–69 ..	27	157	74·8	7	53	25·2	34	210
1969–70 ..	27	180	81·1	7	42	18·9	34	222
1970–71 ..	27	178	77·7	7	51	22·3	35	229
1971–72 ..	27	208	74·8	8	70	25·2	35	278
1972–73 ..	27	211	64·7	8	15	35·3	35	326
1973–74 ..	27	208	64·4	8	115	35·6	35	323

It is evident that the share of the public sector units in terms of production rose from 18·9 per cent in 1965–66 to 25·2 per cent in 1968–69 but declined to 18·9 per cent in 1969–70. In subsequent years it has again registered an increase, the share in 1973–74 being 35·8 per cent.

The installed capacity of phosphatic fertilisers stood at 560,000 tonnes in 1973–74. The break-up is 202,000 tonnes in public sector and 358,000 tonnes in private sector. The capacity under implementation amounted to 680,000 tonnes and the capacity approved in principle but not yet formed up was 665,000 tonnes.

Various types: Following table shows the production of various types of fertilisers with the number of units and their installed capacity.

('000 tonnes)

Type of Fertiliser	1973–74		
	No. of Units	Installed capacity	Actual production
Amm. Sulphate	10	910	572
Amm. Phosphate	2	222	125
Calcium amm. Nitrate ..	2	800	431
Double Salt	1	50	48
Nitro-Phosphate	1	180	213
Urea	13	2,718	1,413
Amm. Chloride	2	66	32
Di-Ammonium Phosphate	1	108	59
Superphosphate	28	1,300	779
Triple Superphosphate ..	1	27	2
Urea Amm. Phosphate ..	2	410	209
Complex NPK	1	365	268

Manures and Composts

The Ministry of Agriculture has taken up a very comprehensive programme for the development of organic manures in the country in view of its importance in building up of soil fertility and also because of constraints in the availability of fertilisers. The programmes are:

(*i*) Urban compost programme, (*ii*) Sewage and sullage utilisation Programme; (*iii*) Rural compost programme; (*iv*) Green Manuring Programme and (*v*) Gobar Gas Plant.

The anticipated production of urban and rural compost by the end of the fourth plan was 4·8 and 170·00 million tonnes respectively. The area under sewage irrigation by the end of the Fourth Plan was 2,400 hectares. The above schemes will be taken up on an expanded scale during the Fifth Five Year Plan for which purposes an outlay of Rs. 9·0 million has been provided in the State Plans. The target is to produce 350 million tonnes of rural compost and 7·5 million tonnes of urban compost a year, by the end of the Fifth Plan. Though no target for green manuring has been fixed for the Fifth Plan, efforts will be made to popularise green manuring practices so that pressures on chemical fertilisers is released considerably. However, the available information shows that the coverage under green manuring increased from 8·5 million hectares in 1969–70 to 10·4 million hectares in 1970–71 and 11·96 million hectares in 1973–74.

In addition, the following key schemes are proposed to be taken up under the Central Agricultural Sector in the Fifth Plan at an outlay of Rs. 9·0 million.

(*i*) Setting up of 45 mechanical compost plants in cities having population of 300,000 and above to manufacture compost manure from city wastes.

(*ii*) Three hundred sewage/sullage utilisation schemes in cities/towns where such potentialities exist, which will irrigate an area of 24,000 hectares.

(*iii*) Setting up of 100,000 gobar gas plants in rural areas for production of gas for fuel purposes and good quality manures for agricultural production.

Other Developments: To promote balanced use of fertilisers and to correct the deficiency of micronutrients in soil as also to encourage fertiliser consumption in general, a centrally sponsored scheme of fertiliser promotion with an outlay of Rs. 219 million was sanctioned by the Government for implementation in 64 districts during 1972–73 and 1973–74. The selection of districts was done in consultation with the State Governments and fertiliser manufacturers. To support the scheme, 65 existing Soil Testing Laboratories would be strengthened so as to increase their annual capacity from 10,000 to 30,000 soil samples. As a result of the demonstrations conducted, both under the centrally sponsored scheme and by the Fertiliser Industry, the consumption ratio of N, P and K has become smaller. In view of these programmes, the sale of superphosphate which was earlier lagging far behind, has also increased.

For improving Soil Testing service facilities, 34 Mobile Soil Testing Laboratories were supplied to the States and

Union Territories during the Fourth Plan period. To run these Laboratories efficiently, Mobile Soil Testing vans have been attached to the existing static Soil Testing Laboratories in the States. **A Central Fertiliser Control Laboratory** is being established at Faridabad to act as reference laboratory and to train the fertiliser quality control staff of the State Governments in technical and legal aspects.

Consumption: With intensive farming, nominal increase of 1·37 per cent per year in the cropped area, and other efforts to make the country self-sufficient in food, one would have expected a commensurate increase in the consumption of fertilizers.

The actual performance, however, shows a decline in the rate of consumption in recent years.

In 1970–71, the rate of growth of consumption of nitrogenous phosphatic and potassic fertilisers was 9·5 per cent compared with 18·8 per cent in 1969–70 and 14·3 per cent in 1968–69. In 1971–72, the growth rate of fertiliser consumption reached the peak level of 20·8 per cent. The rate of growth is considerably lower than the annual compound growth rate of 26·6 per cent envisaged during the Fourth Plan. The average rate of growth of consumption which stood at 12 per cent per annum over the five year ended 1972–73 dropped to 8 per cent per annum with the period ended 1973–74.

('000 tonnes)

	1967–68	1970–71	1970–71	1972–73	1973–74	1974–75 (Estimated)
Nitrogen (N)	1,035	1,479	1,798	1,840	1,835	2,610
Phosphatic (P_2O_5) ..	335	541	558	581	634	935

The consumption of fertilisers per hectare of agricultural land in India during 1973–74 works out at 9·93 kgs. of N, 3·43 kgs. of P and 1·70 kgs. of K respectively. The levels are for below those of other countries (Figures in kgs.).

Country	N	P_2O_5	K_2O	Total
Asia	6·25	2·72	2·02	10·99
China (Taiwan)	189·58	44·12	68·63	302·33
Japan	136·76	105·10	104·95	346·81
Rep. Korea ..	122·34	51·95	30·46	204·75
India	9·93	3·43	1·70	15·06
Philippines ..	6·75	4·80	4·26	15·81

Apart from inadequate marketing facilities and lack of purchasing power of the farmers, natural calamities and inadequate irrigation facilities, high prices, inadequate imports, inadequate promotion measures, lack of adequate credit facilities in several areas, and insufficiency of retail points at convenient distance from the various rural points contributed to the decline in fertilizer consumption. For the Fifth Plan period, the overall growth rate of NPK is envisaged at 21·7 per cent per annum.

The table below portrays vividly how actual consumption fell short of targeted levels during the Fourth Plan.

(Million tonnes)

Year	Target	Actual
1966–67	1·57	1·10
1967–68	2·15	1·54
1968–69	2·80	1·76
1969–70	2·60	1·99
1970–71	2·54	2·26
1971–72	3·20	2·66
1973–73	3·45	2·77
1973–74	3·80 (Annual Plan)	2·81

Five States, namely Andhra Pradesh, Maharashtra, Uttar Pradesh, Tamil Nadu, and Punjab account for more than 59·81 per cent of total consumption. The States having very low consumption of fertiliser per agricultural land are Madhya Pradesh, Assam, Rajasthan, Jammu & Kashmir, Himachal Pradesh, Orissa, Tripura and Manipur.

The States which showed a sharp decline in consumption of nitrogenous fertilisers during 1973–74 were Andhra Pradesh, Uttar Pradesh, Madhya Pradesh, Assam and Bihar. On the other hand, the three States — Maharashtra, Gujarat and Punjab recorded increase of 17·54 per cent 21·92 and 21·70 per cent respectively in 1973–74. Statewise, the consumption of phosphatic fertiliser has recorded a fall in Bihar, Karnataka and Uttar Pradesh.

Imports: With the increase in indigenous production, imports were reduced in 1969–70. Total value of imports of manufactured fertilisers stood at Rs. 900 million in 1971–72 against Rs. 770 million in 1970–71 and Rs. 1,170 million in 1969–70. In 1972–73 and 1973–74, the total value of imports stood at Rs. 1,210 and Rs. 1,770 million respectively. As there is insignificant, manufacture of potassic fertilisers, the country has to depend on imports.

The trend in imports of fertilisers is given in the table below :

('000 tonnes)

Year	N	P	K	Total
1968–69	842	137	213	1,192
1969–70	667	94	120	881
1970–71	477	32	248	757
1971–72	481	248	268	997
1972–73	665	204	325	1,194
1973–74	659	215	370	1,244

General

Potassium Fertilizers : To substitute potassium sulphate which is being imported at present, the Central Salt and Marine Chemicals Research Institute in Bhavnagar, Gujarat, has developed a process for manufacturing potassium chloride and potassium Schoenite from mixed salts.

The institute has set up a commercial plant at Kandla in the private sector having a capacity of manufacturing 1,000 tonnes of potassium chloride and 2,000 tonnes of potassium schoenite (epsom salt) annually. The plant is the first of its kind in the country.

Role of F.C.I. (Training) : F.C.I. has initiated a number of scientific and technological programmes for popularising the use of fertilisers; (*i*) Fertiliser Promotion and Agricultural Research Centre at Calcutta, to demonstrate the use of fertilizer; (*i*) a Rice Production

Training Centre was set up at Durgapur during 1972-73 to impart right technique of rice cultivation; (*iii*) the F.C.I. has currently taken up studies to assess the requirement of micro-nutrient for plants under different climatic and soil conditions. With a view to producing fertilisers containing micronutrients, Fertiliser Corporation of India runs a training institute which provides refresher courses for all categories of employees.

Research : Fertiliser Association of India at 85, Sunder Nagar, New Delhi, 110003, has set up a Fertiliser Institute which does research on the pathological problems of the industry, holds lectures, group discussions and publishes papers on the research done. The institute also holds courses in marketing from time to time.

Some Large Units:

1. Gujarat State Fertilizers Co. Ltd., Fertilizer Nagar near Vadodara. Gujarat.
2. E.I.D. Parry Ltd., Dare House, P.B. No. 12, Madras 600001.
3. Coromandel Fertilisers Ltd., 126, Sarojini Devi Rd., Secunderabad 500003.
4. Shriram Chemical Industries, Naaz Bldg., 1, Jhandewalan, New Delhi 110055.
5. New Central Jute Mills Co. Ltd., Varanasi 221001, Uttar Pradesh.
6. Andhra Fertilisers Ltd., Tadepalle 534101, Andhra Pradesh.
7. M/s. Shaw Wallac and Co. Ltd., Avadi, Madras 600054.
8. Dharamsi Morarji Chemical Co. Ltd., Prospect Chambers, 317/21, Dr. D. Naoroji Rd., Bombay 400001.
9. Ralli Chemical Works, Magarwara, Uttar Pradesh.
10. D.C.M. Chemical Works, Naaz Building, 1, Jhandewalan, New Delhi 110055.
11. Phosphate Co. Ltd., 14, N. Subhas Rd., Calcutta 700001.
12. Indian Explosives Ltd., 17/3, M. G. Marg, Kanpur 208001.
13. Zuari Agro-chemical Ltd., Goa.
14. Southern Petro-Chemical Inustries Corpn., Madras.
15. Jayshree Chemical and Fertilizer Ltd., Calcutta.
16. West India Chemical Ltd., Pune.

Fifth Plan : The Firth Plan envisages a production target of 4 million tonnes of nitrogen and 1·25 million tonnes of P_2O_5 by 1978-79. To achieve this, a minimum capacity of at least 6 million tonnes of nitrogen, 1·7 million tonnes of P_2O_5 would have to be developed by the terminal year of the Fifth Plan. The Government proposes to set up five projects in the public sector (Bhatinda, Panipat, Mathura, Paradeep and Trombay) and 4 other fertilizer plants, viz., Kota (Rajasthan), Vadodara (Gujarat) Kakinada (Andhra Pradesh), Phulpur (Uttar Pradesh) with a capacity of 900 to 1,350 tonnes of ammonia per day each. They had a capacity of 1·94 million tonnes of nitrogen and 0·56 million tonnes of P_2O_5 during 1973. Thus, a total capacity of 6 million tonnes of nitrogen and 1·7 million tonnes of P_2O_5 would have been developed when all these projects both in public and private sectors including those under various stages of implementation are completed.

A new type of project sponsored by the Maharashtra Co-operative Fertiliser Co. to produce 66,000 tonnes of ammonia for direct application to the soil instead of being fixed in the form sold, has been finalised by the Government.

Steps are being taken to step up the production of rock-phosphates at Udaipur, Uttar Pradesh for producing phosphatic fertiliser. At present, these are being imported.

Facilities for the production of phospheric acid at Kandla and Madras are also planned during this period.

A provision of Rs. 11,530 million has been made for the fertilizer programme in the public sector.

IRRIGATION AND POWER PROJECTS

(Also see Chapter on "Energy Crisis")

India owns a fifth of the world's irrigated area yet the country suffers from a chronic food shortage. This is largely due to the increase in population from 380 million in 1939 (undivided India) to almost 560 million today.

At the beginning of the period of planned development in 1950 the area under irrigation from all sources was 22·66 million hectares (56 million acres), 9·7 million hectares (24 million acres) from major and medium sources and 12·95 million hectares (32 million acres) from minor irrigation works.

Power Development : With increased dependence on lift irrigation for food production, the demand for power in the rural sector is increasing rapidly. At the beginning of planned development in 1951 the installed capacity for power generation was only 2·3 million KW. By the end of 1973-74 it was 18·87 million KW.

Power Shortages : The shortages which developed during 1971-72 highlighted the urgent need to strengthen the transmission systems so that a more efficient interstate transfer of power could take place, also the need for improvements in operation and maintenance of available generation capacity and the need for more effective management and faster implementation of the power development programme.

Fourth Plan Targets and Achievements

(Capacity in MW)

	Hydro	Thermal	Nuclear	Total
Target	3,518	4,766	980	9,264
Achievement ..	1,057	2,942	580	4,579
Slippage into Fifth Plan ..	2,461	1,824	440	4,685

Per Capita Consumption : The per capita consumption of electricity in India during 1971-72 was 94 KW.

Pattern of Utilisation of Electrical Energy

Public Utilities	1972-73	(Million KWh) 1973-74	1974-75
Domestic & Commercial lighting ..	8,085	8,999	9,997
Public Lighting Public	605	676	752
Water Works & Sewage Pumping ..	1,361	1,542	1,708
Agricultural Pumping	6,584	7,801	9,105
Railway Traction ..	1,731	2,021	2,173
Industrial	3,914	43,317	49,014

POWER POSITION

The installed capacity of public utility power stations in the country which was 14·83 million KW at the end of 1970-71 is anticipated to rise to 21·22 million KW by March 1975, after taking into account the various retirements.

The total peak capability of all utility power systems in the country is estimated to rise from 12·52 million KW at the end of 1970-71 to 18·82 million KW by March, 1975.

The actual off-take of energy in 1970-71 was 53,618 million KWh. During this period there was a power cut to the tune of 750 M.KWh. The total energy requirement in 1970-71 was 54,368 million KWh. which is expected to rise by March 1975, to 86,103 million KWh.

ALL INDIA POWER POSITION

	1971-72	1972-73	1973-74	1974-75
Installed capacity — M.W.	15,604	16,835	18,697	21,225
Peak Capacity — M.W.	13,335	14,397	16,206	18,815
Peak Load — M.W.	11,475	12,916	14,618	16,627
Energy Potential — Million KWh	64,756	70,343	78,311	89,449
Energy Required — Million KWh	60,921	68,077	76,271	86,103

Per Capita Power Consumption as compared with some Advanced Countries for the year 1968

	In kwh
India	71
U.S.A.	6,550
U.S.S.R.	1,710
United Kingdom	3,481
West Germany	3,060
France	2,287
Sweden	6,434
Hungary	1,255

Power Stations : Total number of major hydel power stations in the country in 1973 was 79.

Future Needs : The generation requirement in 1978-79 are estimated around 130,000 million Kwh for which an installed capacity of 33 million KW will be required. During the Fifth Plan about 1 million KW of old and obsolete capacity is likely to be retired. The Plan envisages the addition of 16·55 million KW to bring the actual generating capacity in 1978-79 to 33 million KW.

Water Resources : All fresh water resources are ultimately derived from inland precipitation. The average annual precipitation, excluding evapo-transpiration and soil moisture storage, in the country can be placed at 179 million hectare metres, resulting in the surface run-off and the ground water recharge included in the annual hydrological cycle.

On account of the limitations of topography, physiography, geology, dependability, quality and the present state of technology, only a part of this can be utilised.

According to recent estimates only 67 million hectare metres of surface water and 26·5 million hectare metres of ground water can be utilised. With the advancement of technology the estimate of utilisable water may improve.

Irrigation Potential : Out of the total arable area of 175 million hectares in the country, an estimated 142 million hectares were under cultivation by the end of the Fourth Plan (1974). The gross cropped area was about 169 million hectares. According to the Planning Commission estimates only 107 million hectares can ultimately be irrigated.

Power Generation — Targets and Achievements

Plan	Financial outlays		Installed generating capacity (mKW)				Percentage short fall
	Plan allocation (Rs. million)	Actual expenditure	Cumulative		Additions		
			Target	Achievement	Target	Actual	
Pre-First Plan	N.A.	N.A.	—	2·30	—	—	—
First Plan (1951–56)	N.A.	1,050	3·60	3·40	1·30	1·10	15·4
Second Plan (1956–61)	2,350	2,500	6·90	5·65	3·50	2·25	35·7
Third Plan (1961–66)	7,120	7,739	12·69	10·17	7·04	4·52	35·8
Three Annual Plans (1966–69)	6,438	6,762	15·60	14·29	5·43	4·12	24·1
Fourth Plan (1969–74)	12,546	15,550*	23·00	18·87*	9·26	4·58	50·0

* Anticipated.

Region-wise break-up of the installed capacity as at the end of the Fourth Plan and Fifth Plan by type of plant

(in MW)

Region	As on 31–3–1974				As on 31–3–1979			
	Hydro	Thermal	Nuclear	Total	Hydro	Thermal	Nuclear	Total
Northern	2,186	1,950	200	4,336	4,420	4,771	435	9,626
Western	1,046	2,865	380	4,291	2,054	5,724	380	8,158
Southern	3,084	1,598	—	4,682	5,667	2,438	470	8,575
Eastern	580	3,230	—	3,810	1,003	5,820	—	6,823
North-Eastern	68	147	—	215	243	237	—	480
Union Territories	—	18	—	18	—	18	—	18
Utilities total	6,964	9,808	580	17,352	13,387	19,008	1,285	33,680
Non-utilities				1,524				1,744
Total				18,876				35,424

Development of Irrigation Potential

(million hectares)

Item	Ultimate Potential	1950-51		1968-69		1973-74	
		Pot.	Utl.	Pot.	Utl.	Pot.	Utl.
Surface water	72	16·1	16·1	25·1	24·0	28·9	27·1
(*a*) Major & medium	57	9·7	9·7	18·1	17·0	21·4	19·6
(*b*) Minor	15	6·4	6·4	7·0	7·0	7·5	7·5
Ground water	35	6·5	6·5	12·0	12·0	16·0	16·0
Total	107	22·6	22·6	37·1	36·0	44·9	43·1

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STATE-WISE LIST OF MAJOR IRRIGATION PROJECTS

Name	Location	Dam		Canal Length (km.)	Benefit (Area in hectares)	Cost (Rs. mill.)	Date		Other details
		Length (metres)	Height (metres)				Start	Completion	
ANDHRA PRADESH									
K. C. Canal and Sunkesula Anicut	Improvements to Sunkesula Anicut across Tungabhadra River a tributary of river Krishna in Kurnool and Cuddapah districts and remodelling of old canals.	2,148·17		307·4	122,219·4	76·8	1954–55	1962–63	The masonry anicut is 2,148·17 metres long.
Kadam	Across Kadam river a tributary of the Godavari in Adilabad district.	2,102·00	40·6	77·00	34,400	83·9	1949	During V Plan	The reservoir has a gross storage capacity of 215·24 M. cu. m.
Nagarjuna Sagar	Across the Krishna River in Nalgonda district about 144 km. from Hyderabad.	1,450·00	124·7	202·78 (right bank) 178·63 (left bank)	830,000	1,649	1956	End of IV Plan	Reservoir storage capacity: 11,558·7 M. cu. m.
Pochampad	About 5 km. upstream of Soan bridge across the river Godavari in Nirmal taluk of Adilabad district.	12,588·24	42·67	112·63	230,679	401	1963–64	IV Plan	Reservoir storage capacity: 3,170 M. cu. m.
Tungabhadra Low Level Canal	Right flank of the Tungabhadra Dam, across the river Tungabhadra.			347	60,247	134·5	1944–45	1956–57	Length in A.P. 196 km.
Tungabhadra High Level Canal	The high level sluices on the right side of the Tungabhadra Dam.			196	103,822	302·6	1958 (Stage I) 1968 (Stage II)	1970–71 (Stage I) V Plan (Stage II)	Canal includes construction of Guntakal branch canal.
ASSAM									
Jamuna Irrigation Scheme	A weir at Bokaliaghat across the river Jamuna near Diphu under United Mikir and N. C. Hills.	311·60	3·05	137·15	25,698	39·6	1964	IV Plan	
BIHAR									
Badua	A dam across the river Badua at Hanuman Pahar.	472·60	42·05	27·8	42,493·50	66·0	1958	1965–66	Reservoir: Gross storage: 128·3 M. cu. m.
Chandan	A dam on the river Chandan near village Lakshmipur.	1,569·00	40·24		70,382	104·2	1961–62	IV Plan	Reservoir: Gross storage: 156·65 M. cu. m.
Gandak	A barrage across the river Gandak at Balmikinagar about 760 m. below Tribeni Canal.	747·37	9·81	527·76(1)	1,198,755(2)	1,081·8	1960	During V Plan	Half the barrage length is in Nepal.

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[1] Includes Canals Saran 66 km, Tirhur 256·68 km, Don Branch 95 km, Nepal Eastern 80·47 km. and Nepal Western 29·61 km.

[2] Includes 47,755 hectares in Nepal.

STATE-WISE LIST OF MAJOR IRRIGATION PROJECTS—(*Contd.*)

Name	Location	Dam		Canal Length (km.)	Benefit (Area in hectares)	Cost (Rs. mill.)	Date		Other details
		Length (metres)	Height (metres)				Start	Completion	
			BIHAR — *Contd.*						
Kosi	A barrage across the river Kosi near Hanumannagar on Indo-Nepal border and flood embankments along the bank of Kosi river in Sahar and Darbhanga Districts of Bihar and part of Nepal.	1,149		165·81	956,000	827·4	1957	IV Plan	Work on Western Kosi Canal is yet to start.
Sone Barrage[1]	A barrage at Indrapuri, 8 km. upstream of the anicut at Dehri-on-Sone in the district of Shahabad.	1,407·00	7·59	185·56	523,000	223·03	1961 1968–69	1966–67 (Stage I) IV Plan (Stage II)	Length of the canal includes Eastern link 10·3 km.; Western link 10·46 km.; Western High Level 82·40 km. and Eastern High level 82·40 kms.
			GUJARAT						
Banas	A dam across the river Banas near village Dantiwada in Banaskantha district.	4,815·00[2]	61·0	651·77	44,517	108·8	1958	1968–69	Reservoir: Gross storage: 464·4 M. cu. m.
Hathmati	A dam across the river Hathmati near the village of Fatehpur in Bhiloda Taluka of Sabarkanta district.	1,603-9	23·5	191·2	37,604	54·46	1959	1968–69	Reservoir: Gross storage: 161·51 M. cu. m.
Kakrapar	A pick-up weir across the river Tapi near Kakrapar about 80·87 km. upstream of Surat.	621·00	14·00	435·00	227,543	180·5	1949	During IV Plan	
Mahi Right Bank Canal (Stage I)	A pick-up weir across the river Mahi near Wanakbori village, Balasinor Taluka of Kaira district.	796·00	20·6	304·00	186,162	245·68	1948	End of IV Plan	
Mahi Stage II (Kadana)	A dam across the river Mahi at Kadana about 70·8 km. upstream of the Wanakbori Weir in Santrampur Taluka of Panchmahals district.	2,225·00	58·2	106·00	286,554[3]	210·01	1956	End of IV Plan	Reservoir: Gross storage: 1,700 M. cu. m.

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[1] Includes Sone High Level Canal.

[2] Length includes 327 m. of masonry.

[3] Direct irrigation facility is only 16,554 hectares on the left bank canal. Firming up and extension of 270,000 hectares irrigation facility under Mahi right bank canal is envisaged.

Name	Location	Dam		Canal Length (km.)	Benefit (Area in hectares)	Cost (Rs. mill.)	Date		Other details
		Length (metres)	Height (metres)				Start	Completion	
GUJARAT — *Contd.*									
Narmada	A dam across river Narmada near Navagam village in Rajpipla Taluka of Broach district.	2,012·00	69·2	143·2	403,688	1,097·00	1959	During V Plan	
Shetrunji	A dam across the river Shetrunji 10·40 km. from Palitana town of Bhavnagar district.	3,126·00[1]	38·10	154·5	34,804	69·6	1955	1965	Reservoir: Gross storage: 350·3 M. cu. m.
Ukai	A dam across the river Tapi near Ukai in Songadh Taluka of Surat district.	4,928·00	68·6	949	152,400[2]	1,044	1960	End of IV Plan	Reservoir: Gross storage: 8,511 M. cu. m. It has 4 power units of 75,000 kw. each.
HARYANA									
Gurgaon Canal	Comprises of a branch-canal taking off at 8 km. below off-take of Agra Canal from Okhla headworks near Delhi and serves Haryana and Rajasthan States.			469·31	126,671	118·6	1959–60	During IV Plan	Irrigation benefit to Haryana is 101,580 hectares. Rajasthan's share for the project is Rs. 83·6 million.
Western Jamuna Canal	The canal takes off from Tajewala headworks and serves Haryana State.			629·03	264,887	95·0	1951–52	During IV Plan	The scheme envisages for remodelling of Western Jamuna canal and branches.
JAMMU & KASHMIR									
Tawi Lift Irrigation	An intake structure on the left bank of river Tawi near Bahu fort about 56·3 km. from Jammu.			32·00	12,141	51·7	1969–70	End of IV Plan	Type: R. C. C. Head regulator. Discharge: 8·49 cu. m./sec. (300 cusecs).
KARNATAKA									
Bhadra	Dam across the river Bhadra near Lakkavali village.	440·5	71·6	176·62	99,015	350·0	1947	During IV Plan	Storage capacity of the reservoir is 2,023 M. cu. m.
Ghataprabha	A weir across the river Ghataprabha near Dhupdal in Belgaum district and a dam near Hidkal village about 19 km. upstream of the Dhupdal weir.	Dhupdal 2,084·00 Hidkal 8,841·00	 8·95 50·00	114·25	11,700	554·75[3]	Stage I 1949— Stage II 1956—	 Completed V Plan	The length of the stage I canal is 70·8 km. The gross storage of the reservoir is 660 M. cu. m.
Hemavathy	Mysore	—	—	—	40,700	350.00	1967		

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[1] Includes 770 metre masonry. [2] Indirect irrigation facility of 227,430 hectares is envisaged under Kakrapar weir. [3] The expenditure on stage II is Rs. 485·30 million.

STATE-WISE LIST OF MAJOR IRRIGATION PROJECTS—(*Contd.*)

Name	Location	Dam		Canal Length (km.)	Benefit (Area in hectares)	Cost (Rs. mill.)	Date		Other details
		Length (metres)	Height (metres)				Start	Completion	
				KARNATAKA — *Contd.*					
Harangi	Coorg	—	—	—	30,525	170.00	1967		
Kabini	Dam across the Kabini river near village Bidarahalli in Heggadadevanakote talukas.	2,701·00	59·45	212·43	50,992	248·00	1959	V Plan	The storage capacity of the reservoir is 543·80 M. cu. m.
Karanja	Bidar	—	—	—	27,269	90.00	1969		
Malaprabha	Dam on the river Malaprabha at Peacock Gorge near Manoli village.	154·6	43·3	193·12	121,410	676·50	1965	V Plan	The capacity of the reservoir is 880·0 M. cu. m.
Tungabhadra	A dam across the river Tungabhadra at Mallapur village in Bellary district about 4·8 km. from Hospet.	2,441·00	49·39	576·13[1]	272,100	1,018·57[2]	1945	1966	It is an inter-state project with Andhra Pradesh. There are 14 power units of 9,000 kw. each, 8 being on the right bank.
Upper Krishna	The dams across the Krishna river one at Almatti in Bagewadi taluka and the other at Siddapur in Muddebehal taluka in Bijapur district.	Almatti 1,631·00 Siddapur 6,951	 34·76 23·63	Almatti 170·58 Siddapur 222·00	242,820	750·00	1964	During V Plan	The capacity of the reservoirs is 2,350 M. cu. m. and 791 M. cu. m. respectively.
				KERALA					
Kallada	A dam across the river Kallada in Quilon Dist. about 72 km. from Trivandrum.	335·00	73·48	152·07[3]	105,222	144·91	1962	During V Plan	Reservoir: Gross storage: 524 M. cu. m.
Kuttiyadi	A dam across the river Kuttiyadi at Peruvannamushi in Kozhikode.	170·7	35·4	76·60	31,162	52·42	1962	During IV Plan	Reservoir: Gross storage: 120·5 M. cu. m.
Malampuzha	A dam across the river Malampuzha at Kadukkamkunnam village of Palghat.	1,849·00	38·1	63·57	38,527	58·00	1949	1967	Gross storage of the reservoir: 236·16 M. cu. m.
Pamba	A barrage across the river Kakkad, a tributary of the river Pamba 152·44 m. upstream of Perinad rubber factory in Quilon.	79·3		197·2	33,995	92·05	1962	During IV Plan	
Periyar	Across the river Periyar at Plancode near Alwaye in Ernakulam district.	210·9		29·00	40,996	64·94	1956	End of IV Plan	

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[1] Includes the left side canal 226·9 km. long.

[2] Includes cost on headworks Rs. 175·1 mill., left side canal Rs. 481·11 mill., right side canal Rs. 24·00 mill., H.L.C. Stage I & II Rs. 99·16 mill. and Power Rs. 239·2 mill.

[3] Includes left bank canal 70 km. long.

Name	Location	Dam		Canal Length (km.)	Benefit (Area in hectares)	Cost (Rs. mill.)	Date		Other details
		Length (metres)	Height (metres)				Start	Completion	
		MADHYA PRADESH							
Barna	A dam across the river Barna 2·4 km. upstream of village Bari in Raisen district.	432·00	47·7	38·00	60,290	70·00	1960	End of IV Plan	Storage capacity of the reservoir: 490·40 M. cu. m.
Gandhisagar Dam Chambal Project	Mandsaur A dam across the river Chambal about 8 km. downstream of Chaurasigarh fort in Mandsaur district.	514·00	63·7	[1]	222,585	136·03	1954	1960	This is an inter-State project with Rajasthan. Gross storage capacity of the reservoir is 7,746 M. cu. m.
Hasdeo	A barrage across the river Hasdeo, a tributary of Mahanadi at village Dari near Korba Thermal Power Station near Bilaspur district.	283·77		3·55	[2]	28·6	1961	During IV Plan	
Tawa	A dam across the Tawa river, a tributary of the Narmada river, 822·96 m. downstream of Tawa and Denwa confluence in Hoshangabad district.	1,630·22[3]	57·95	196·85	32,800	401·5	1962	During IV Plan	The storage capacity of the reservoir is 2,297·99 M. cu. m.
		MAHARASHTRA							
Bagh	Dam across Bagh river near Sirpur village, Gondia taluka, Bhandara district and a pick-up weir at village Pujantara.	2,836·00	28·5	64·00	33,671	58·4	1958	1972	The storage capacity of the reservoir is 203 M. cu. m.
Bhima	Dam across the river Pawna, near village Phagna of Pune district and a dam across Bhima river near village Ujjaini in Sholapur district.	Pawna 1,702 Ujjaini 2,330	 43·00 51·80	429·6	130,846	425·8	1964	V Plan	There is no canal connecting with Dam at Pawna. The gross storage capacity of the reservoir is 3,114 M. cu. m.
Ghod	Dam across the river Ghod near village Chinchi, Sirur taluka, Pune district on one side and at village Vadgaon Madhe, Shrigonda Taluka in Ahmednagar district on the other side.	2,852	29·6	33·5 & 86·5	24,615	55·6	1954	1965–66	The length of the right bank and left bank canals is given separately. The gross storage capacity of the reservoir is 215·86 M. cu. m.

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[1] Particulars about the Canal are given under Kotah Barrage (Rajasthan).

[2] For supplying cooling water to Korba Thermal Power Station.

[3] It has two dykes of 183 m. length each.

STATE-WISE LIST OF MAJOR IRRIGATION PROJECTS—(*Contd.*)

Name	Location	Dam		Canal Length (km.)	Benefit (Area in hectares)	Cost (Rs. mill.)	Date		Other details
		Length (metres)	Height (metres)				Start	Completion	
		MAHARASHTRA — *Contd.*							
Girna	A dam across the river Girna, near village Banzam in Nasik district.	963·16	55·00	144·00	57,208	127·5	1958	1967–68	The gross storage of the reservoir is 611·81 M. cu. m.
Itiadoh	A dam across Garvi river, a tributary of Wainganga in the Godavari Basin, Bhandara district.	527·00	28·00	80·00	46,136	69·2	1958	End of IV Plan	The gross storage of the reservoir is 283 M. cu. m.
Jayakwadi Stage I	A dam at Paithan across the Godavari river.	10,000·00	36·6	185·00	141,645	387·81	1964	During IV Plan	The cost is likely to be revised to Rs. 587·81 million.
Khadakwasla Stage I	A dam across the river Ambi at Panshet and strengthening of the existing dam at Khadakwasla across the river Mutha in Pune District.	823·00	58·00	127·00	22,298	167·00	1957	End of IV Plan	Capacity of the reservoir is 312 M. cu. m.
Krishna	Dams across the Krishna river near Dhom, Borkhal villages and Venna river near Kanher in Satara district.	Dhom 2,302·68 Borkhal 3,341·83 Kanher 1,847·00	 50·00 35·06 47·56	367·4	106,290	276·57	1968–69	During V Plan	The length of the canals separately are: Dhom 134·4, Borkhal 169·0 and Kanher 64 kms. The total gross storage of the reservoirs is 812·42 M. cu. m. respectively.
Kukadi Stage I	Dam at Manikdoh on Kukadi river, a weir-cum-storage at Yedgaon on Kukadi river and a dam at Pimpalgaon in Pune district.	Manikdoh 1,763·00 Yedgaon 4,470 Pimpalgaon 925·00	 55·00 22·56 23·8	124	42,700	179·00	1969–70	V Plan	The gross storage capacity of the reservoirs is: 308·0 M. cu. m., 93·4 M. cu. m. and 107·5 M. cu. m.
Mula	Dam across the river Mula at village Baregaon–Nandur in Ahmednagar district.	2,820	46·63	75·2	65,561	161·6	1959	1971–72	The length of the right bank canal is 57·6 km. The gross storage capacity of the reservoir is 736·3 M. cu. m.

Name	Location	Dam		Canal Length (km.)	Benefit (Area in hectares)	Cost (Rs. mill.)	Date		Other details
		Length (metres)	Height (metres)				Start	Completion	
MAHARASHTRA — *Contd.*									
Purna	Two dams on the river Purna, one at Yeldari and the other at Siddheshwar in Parbhani district.	Yeldari 2,921·81 Siddheshwar 4,658·27	 51·36 38·25	44·8	61,514	160·7	1957	1968	The cost of the three power units Rs. 26·7 million is not included. The total capacity of the units is 22,500 kw. The gross storage capacity of the reservoirs is 1,216 M. cu. m.
Upper Godavari	Dams at Karanjavan, Waghad, Oxarkhed and Palkhed in Dindori taluka, Nasik district.	Karanjavan 2,470·00 Waghad 899·00 Oxarkhed 3,000·00 Palkhed 3,571·00	 64·79 72·91 67·23 39·00	114·00	41,682	142·9	1968	First Stage in IV Plan and the rest in subsequent Plans.	The length of the two left bank canals of Oxarkhed and Palkhed Dams respectively are 12 km. and 102 km. The gross storage capacity of all the reservoirs together is 332·68 M. cu. m.
Vir	Dam near Vir village, Pune district.	3,607·00	34·68	331·5[1]	26,710	54·1	1957	1965–66	The storage capacity of the reservoir is 328 M. cu. m.
Warna	Dam across Warna river near Khujgaon about 25·61 km. east of Shirala town in Sangli district.	1,458·00	58·52	341·00	99,058	310·87	1964	End of V Plan	The length of the left bank canal is 148 kms.
ORISSA									
Hirakud	Dam across the river Mahanadi, 9·7 km. from Sambalpur Railway Station.	4,801·2 & 20,661 metres dykes	61·00	147·00	496,567	827·6	1948	End of IV Plan	Dam completed in 1957. There are 9 power units, 5 of them having 24,000 kw. each and four 37,500 kw. each.
Mahanadi Delta	A weir across the river Mahanadi at Mundali 4·8 km. upstream of Naraj in Cuttack district.	1,353		386·24	68,071	683·81	1955–56	During IV Plan	

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[1] The Canal feeds the existing Nira right 160 km. and Nira left 162·5 km. main Canals.

STATE-WISE LIST OF MAJOR IRRIGATION PROJECTS—*(Contd.)*

Name	Location	Dam		Canal Length (km.)	Benefit (Area in hectares)	Cost (Rs. mill.)	Date		Other details
		Length (metres)	Height (metres)				Start	Completion	
		ORISSA — *Contd.*							
Salandi	A dam at Hadgarh and a barrage at Bidyadharpur across the river Salandi.	1,022·3	51·8	80·45	61,903·8	130·76	1961	During IV Plan	The length of the barrage 204·3 metres included in the length of the Dam. Reservoir capacity: 565·8 M. cu. m.
		PUNJAB							
Beas (Unit I)[6] Beas Sutlej Link	A dam across the river Beas at Pandoh at a distance of 76·8 km. from Jogindernagar and 20·8 km. upstream of Mandi Town in H.P.	254·6	60·98	38·15	530,000	1,468·7	1961–62	V Plan	The length of the four tunnels respectively are: Surendranagar Hydel 11·58 km., Sutlej 13·68 km., Pandoh Baggi 12·87 km. and by-pass tunnel 0·2 km.
Beas (Unit II) Pong dam	A dam across the river Beas at Pong 36·62 km. from Mukerian Station.	1,950	115·8	4·74	650,000	1,676·7	1961–62	During V Plan	The gross storage capacity of the reservoir is 8,140·94 M. cu. m.
Bhakra Nangal[1]	(1) Bhakra dam across the river Sutlej at the foot of Shivalik Hills in Himachal Pradesh, (2) Nangal barrage across the river Sutlej about 13 km. downstream of Bhakra Dam.	823[2]	226·00	238·00[3]	1,460,000	2,415·10[4]	1948	1968	Irrigational benefit is being shared by Haryana 0·68 M. ha., Punjab 0·55 M. ha., and Rajasthan 0·23 M. ha.
Harike	A barrage at Harike across river Sutlej about 3·25 km. below the confluence of Sutlej and Beas rivers.	636·12		78·3	13,800	91·29	1950	1958	Length of the canal includes Makhu canal 24 kms.
Sirhind Feeder	Takes off from Ferozepur Feeder at about 17·7 km. downstream of Harike Barrage.			142·00	No direct benefits	67·00	1953–54	1960	

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[1] Power projects: Left bank — 5 units of 90 MW each in Bhakra, two units of 24 MW each and one unit of 29 MW at Gengwal; two units of 24 MW each and one unit of 29 MW at Kotla; Right bank: Five units of 120 MW each in Bhakra. [2] Length of the Nangal barrage 305 metres is included. [3] Includes 64 km. Nangal Hydel channel. [4] Includes Rs. 724·23 million on power and Rs. 659·10 million on right bank power house. [6] It is an inter-State project with Himachal Pradesh.

Name	Location	Dam		Canal Length (km.)	Benefit (Area in hectares)	Cost (Rs. mill.)	Date		Other details
		Length (metres)	Height (metres)				Start	Completion	
				RAJASTHAN					
Kotah Barrage	A barrage across the river Chambal 0·8 km. upstream of Kotah city.	551·83	39·02	379·8	222,000	217·5	1953	End of IV Plan	Inter-state project with M.P. The work on the barrage was completed in 1960.
Rajasthan Canal	The canal takes off from Harike Barrage in Punjab across the river Sutlej.			685·55	1,163,000	1,960·00	1958	During V Plan	Second Stage: Rajasthan main canal 273·9 km. was taken up. The cost at the second stage is Rs. 860 million.
Rana Pratap Sagar Dam	A dam across the river Chambal 51·5 km. upstream of Kotah barrage and 56·33 km. downstream of Gandhi Sagar.	1,143·29	53·96		121,400	278·4	1961	IV Plan	The project has four power units of 43,000 kw. each.
				TAMIL NADU					
Chittar Pattnamkal	Dams on Chittar river inside the Ambadi Estate and another below Sivalikam factory.	1,838·00	47·00†	72·8‡	19,021	73·3	1963	End of IV Plan	The dam at Ambadi estate is 762 m. long and at Sivalikam 1,076 m.
Lower Bhavani	A dam across the river Bhavani just below its confluence with the Moyar in Gobichettipalayam Taluk in Coimbatore district.	8,799·00	62·00	199·5	78,917	103·40	1949	1956	The gross storage capacity of the reservoir is 925 M. cu. m.
Manimuthar	A dam across the river Manimuthar in Tirunelveli district.	3,397·87	45·00	45·1	41,694	50·5	1950	1958	The gross storage of the reservoir is 156·06 M. cu. m.
Parambikulam(b) Aliyar	It has seven weirs — five on the Annamalai hills *viz.*, Nirar, Sholayar, Parambikulam Tunakadavu and Peruvaripallam and two on the plains, *viz.*, Aliyar and Palar.	8,666·00(c)		244·00(d)	97,128	675·3	1959	During IV Plan	The gross storage capacity of all the seven reservoirs together 857 M. cu. m.

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† Height of two dams together, one being 22 m. and the other 25 m. respectively.

‡ There are two canals; *viz.* Pattnamkal 44 km. and Radhapuram 28·8 km. (b) It is an inter-state project with Kerala State. (c) Length and height of different dams: Sholayar 1,184 m.; 105 m.; Parambikulam 318 m. and 73 m.; Tunakadavu 338 and 12; Puruvallipallam 945 m. and 28 m.; Aliyar 3,201 and 22 m.; and Palar 2,680 m. and 23 m. respectively. (d) Total length of all the canals together (Sethumadai 9; Aliyar Feeder 13; Pollachi 48; Vettaikarampudur 18; Udumelpet 30; Parambikulam Main 126).

STATE-WISE LIST OF MAJOR IRRIGATION PROJECTS—(*Contd.*)

Name	Location	Dam		Canal Length (km.)	Benefit (Area in hectares)	Cost (Rs. mill.)	Date		Other details
		Length (metres)	Height (metres)				Start	Completion	
				UTTAR PRADESH					
Matatila	A dam across the river Betwa 56 km. south of Jhansi town.	6,378·00	36·60	111·00	165,757	124·60	1952	1966	Irrigation benefits includes 45,326 hectares in M.P. The power installed capacity is 30,000 kw.
Ramganga	A dam across the river Ramganga 3·2 km. upstream near Kalagarh in Garhwal district.	625·8	125·6	82·00[1]	659,000	96·86	1961	1973–74	The installed power capacity is 198,-000 kw. The capacity of the reservoir is 2,196 M. cu. m.
Sarda Sagar	A dam across the river Chuka, a tributary of the Ghagra river near Indo-Nepal border.	22·5	16·15	1,113·8	74,930	73·23	1957–58	1962	The gross storage capacity of the reservoir is 567 M. cu. m.
Sarda Canal (Lower)	A barrage across the river Ghagra at Katarnia Ghat 16 km. below the Indo-Nepal border in Bahraich district.	1,814·1		264·00	607,050	648·4	1968–69	During V Plan	
Western Gandak	A barrage[3] across the river Gandak at Balmikinagar.	747·37	9·81	112·7	264,000	503·8[2]	1961	During IV Plan	This is an inter state project with Bihar State.
				WEST BENGAL					
Kangsabati	A dam across the river Kangsabati and Kumari about 3·2 km. upstream of the confluence of the two rivers near Ambikanagar in Bankura district.	11,200	41·15	805	384,465	460	1956	End of IV Plan	Kangsabati dam was completed in 1965 and Kumari dam was expected to be completed by 1973–74.
Mayurakshi	A dam across Mor river at Massanjore, 40 km. north-west of Suri and a barrage at Tilpara across river Mayurakshi 3·2 km. from Suri.	Dam 640 Barrage 308·8	47·3	361	246,861	204·6	1946	1956	The installed capacity of the power station is 4 MW.

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[1] This is only is a feeder canal. The actual total length of the branches of the Canals under construction and remodelling together is 7,268 km.

[2] The cost of the project is shared among U.P. Rs. 318 mill., Bihar 175·3 mill. and Nepal benefit works Rs. 10·5 mill. respectively.

[3] Half of the barrage length is in Nepal.

STATE-WISE LIST OF MAJOR POWER PROJECTS

Name	Location	Installed capacity	Areas benefited	Total cost in Rs. Mill.	Date	
					Commencement	Completed
ANDHRA PRADESH						
Kothegudam (Thermal.)	Situated in the Singaneri coal field area in Telangana region.	Stage I & II: 4 units of 60,000 kW. each. Stage III: 2 units of 110,000 kW. each.	Whole of Andhra Pradesh, as power is fed into the State grid.	863·0	1962	Stage I 1966–67 Stage II 1968–69 Stage III 1972–73
Machkund (1) (Hydro)	A dam at Jalaput 193 km. north-west of Visakhapatnam and a diversion dam 22·53 km. below Jalaput across the Machkund river.	Stage I: 3 units of 17 MW. each. Stage II: 3 units of 21·25 MW. each.		182·79	1946	Stage I 1955–56 Stage II 1958–59
Nagarjunasagar Pumped Storage (Hydro)	This project envisages a power house at the toe of the Nagarjunasagar Dam.	2 units of 50 MW. each.		467·59	1970	V Plan
Nellore (Thermal)	At Padugapadu village 1·6 km. north of Nellore town.	One generating unit of 30,000 kW.	Anantpur, Kurnool, Nellore and Cuddapah districts.	65·42	1961	1965
Ramagundam (Thermal)	Situated near Ramagundam Station in Telangana region.	Three units of 12,500 kW. each and one unit of 62,500 kW.	Warangal, Adilabad and Hyderabad.	122·6	1961	1970–71
Sileru Hydro-Electric (Lower) (Hydro)	The project is located on the down stream of the Upper Sileru project with a main dam at Donkarayi and a power house is located near Polloor about 24 km. from the Donkarayi dam.	4 units of 100 MW. each under Stage I and 2 units of 100 MW. each under Stage II.	Whole State as the power generated from the station will be fed into the State grid.	Stage I 540·00	1964	1973–74
Srisailam (Hydro)	A dam across the river Krishna near Srisailam, Kurnool district.	Stage I: 4 units of 110 MW. each. Stage II: 3 units of 110 MW. each.	Whole State as the power generated from the station will be fed into the State grid.	Stage I 747·00	1963	V Plan

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(1) Joint venture of the States of Andhra Pradesh & Orissa, the share capital and benefits being shared in the ratio of 70 : 30 respectively.

Name	Location	Installed capacity	Areas benefited	Total cost in Rs. Mill.	Date	
					Commencement	Completed
			ANDHRA PRADESH — *Contd.*			
Tungabhadra (H.E.)	Nellore.	30 MW.				1965
Upper Sileru Hydro Power (Hydro)	The power house is at Upper Sileru 64 km. from Chintapally and a diversion weir at Guntawada across the river Sileru in Chintapally taluk of Vishakapatnam district.	Two units of 60 MW. each.	Srikakulam, Vishakapatnam, Godavari (East & West), Krishna, Guntur and Nellore districts.	185·00	1958	1967–68
			ASSAM			
Gauhati Thermal Station	At Gauhati, on the southern side of river Brahmaputra near Narangi and Chandrapura.	One unit of 12,500 kW.—gas turbine set at Narangi and another unit of 30,000 kW. steam turbine set at Chandrapura.	Gauhati and neighbouring areas.	86·00	1963	1971–72 Gas-turbine set completed in 1964.
Namrup (Thermal)	At Namrup in the Lakhimpur district about 20 km. west of Naharkatiya Oil fields.	Stage I : 3 units of 23,000 kW. each gas turbine sets. Stage II : one unit of 30,000 kW. steam turbine set and an extension of one unit of 30,000 kW.	Dibrugarh, Tinsukiya, Nazira, Jorhat, Doomdooma, Digboi, Golaghat and Nagaland.	236·24(2)	1961	Stage I 1965 Stage II 1972–73 Extn.: V Plan.
Umium (Hydro)	Stage I : A dam across Umium river about 14·4 km. from Shillong. Stage II : A weir across Umsumer stream, down stream of Umium power station.	Stage I : four units of 9,000 kW. each. Stage II : two units of 9,000 kW. each. Stage III : two units of 30,000 kW. each.	Kamrup, Khasi and Jantia Hills, Cachar Darrang and Goalpara.	Stage I 141·3 Stage II 44·40 Stage III 88·3	Stage I 1959 Stage II 1962 Stage III 1970–71	1965 1969–70 V Plan
			BIHAR			
Barauni (Thermal)	On the northern bank of the river Ganga in Monghyr district.	Stage I : Three units of 15 MW. each. Stage II : two units of 50 MW. each and Stage III : one unit of 120 MW.	Whole of north Bihar and part of south Bihar.	387·40	1960	V Plan(3)

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[2] Cost separately for Stage I : Rs. 135·94 mill. ; Stage II : Rs. 55 mill. ; and Stage II Extn. : Rs. 45·3 mill.

[3] Two units of 15 MW in 1963, third unit of 15 MW in 1966, one unit of 50 MW in 1969-70 and another unit of 50 MW were commissioned in 1970–71.

Name	Location	Installed capacity	Areas benefited	Total cost in Rs. Mill.	Date	
					Commencement	Completed
BIHAR — *Contd.*						
Patratu (Thermal)	Located in Hazaribagh district about 6 km. from Patratu Railway Station.	Stage I: Four units of 50 MW. each and two units of 100 MW. each, Stage II: two units of 110 MW. each.	South of Bihar & Chota Nagpur.	Stage I 527·10 Stage II 369·80	1963 (Not yet started)	V Plan
Subarnarekha (Hydro)	A dam across the river Subarnarekha at Getalsud, 30 km. from Ranchi.	Two units of 65 MW. each.	Ranchi and adjoining areas.	129·00	1965–66	1st Unit during IV Plan and 2nd Unit during V Plan
GUJARAT						
Dhuvaran (Thermal)	At Dhuvaran 9·6 km. from Cambay in Kaira.	Stage I: Four units of 63·5 MW. each and Stage II: two units of 140 MW. each.	Saurashtra, North and South Gujarat, Bhavnagar, Shahpur, Porbandar and Kutch.	Stage I 307·8 Stage II 430·0	1960	Stage I 1969 Stage II 1971–72
Gas Turbines Schemes	Based on Ankleshwar and Cambay Gas.	Two units of 27 MW. each.	Gujarat State.	40·6	1968	1969–70
Ukai (Thermal)	On the down stream of Tapi Reservoir about 12 km. from Fort Songad Railway Station.	Four units of 120 MW. each.	Industrial regions of Gujarat.	680·0	1969	V Plan
HARYANA						
Delhi (Thermal)	Delhi.	Three units of 62·5 MW. each.	Delhi and Haryana.	256·00	1965	1968
Faridabad (Thermal)	Faridabad about 29·0 kms. from Delhi.	Stage I: One unit of 15 MW. and Stage II: one unit of 55 MW.	In and around Faridabad in Haryana State.	Stage I 24·85 Stage II 100·00	Stage I 1964 Stage II 1966	1966 During IV Plan
JAMMU & KASHMIR						
Chenani (Hydro)	Across the river Tawi 6·44 km. upstream of Chenani village in Jammu district.	5 units of 4·66 MW. each.	Jammu district	88·20	1960	End of IV Plan
Kalakot (Thermal)	At Kalakot about 20 km. from Jammu.	Three units of 7,500 kW. each.	Jammu district.	50·00	1961	1970–71

Name	Location	Installed capacity	Areas benefited	Total cost in Rs. Mill.	Date	
					Commencement	Completed
		JAMMU & KASHMIR — *Contd.*				
Lower Jhelum (Hydro)	A weir across the river Jhelum at Jainpur village in Baramulla district and a power house at about 72·5 km. west of Srinagar.	Seven units of 16 MW. each.	Kashmir valley.	350·00	Under investigation.	V Plan
Salal H. E. Scheme	The high dam (113 m. high) across the river Chenab near Madhopur.	Stage I : Three units of 90 MW. each. Stage II : Three units of 90 MW. each.	Kashmir valley.	551·5	1969	1975–76
Sindh H. E. Project	A weir across the river Sindh about 29 km. upstream of the existing Ganderbal Hydro Power Station and a power house at Sumbal about 48 km.north-east of Srinagar.	Two units of 11 MW. each.	Kashmir valley.	80·5	1965–66	1972–73
		KARNATAKA				
Bhadra	Shimogao	33,200 KW.	N.A.	N.A.	1956	1964
Jog	Shimogao	120,000 KW.	N.A.	N.A.	1939	1952
Kalinadi (Hydro)	Construction of a pick-up dam across the river Kali at Bommanahalli and diversion of the waters of Kali to Nagjhari power House.	Three units of 132 MW.	Karnataka State.	452·5	1968	V Plan
Munirabad	Raichur	27,000	N.A.	N.A.	1958	1964
Sharavathi (Hydro)	Main dam near Linganamakki village and a subsidiary dam at Talakalale near Jog falls in Shimoga district.	Stage I : 178,200 kW. Stage II : 534,600 kW. Stage III : 178,200 kW.		Stage I : 560·8 Stage II : 435·13 Stage III : 71·8	1956	Stage I : 1965 Stage II : 1970–71 Stage III : During V Plan
Shimshapura	Mandya	17,200 KW.	N.A.	N.A.	1937	1940
Shivasamudram	Mandya	42,000 KW.	N.A.	N.A.	1900	1938
		KERALA				
Edamalayar H. E. Scheme	A dam across Edamalayar, a tributary of Periyar.	Three units of 30 MW. each.	N.A.	125·00	1969	V Plan

Name	Location	Installed capacity	Areas benefited	Total cost in Rs. Mill.	Date	
					Commencement	Completed
KERALA — *Contd.*						
Iddiki (Hydro)	Dam across the rivers Periyar and Cherutheni in Kottayam district and the power house in Moolamattam in Ernakulam district.	Three units of 130 MW. each.	Whole State as power will be fed into the State grid.	682·10	1963	1972–73
Kuttiyadi (Hydro)	A dam across river Kuttiyadi near Oorakuzhi falls about 64 km. from Kozhikode & a power house on the bank of Kakkayam, a tributary of Kuttiyadi.	Three units of 25,000 kW. each.	Whole State as power will be fed into the State grid.	83·5	1962	1970–71
Sabarigiri (Pambakakki) H. E. Project	129 km. south-east of Kottayam across the Pamba & Kakki river in Quilon district.	Six units of 50,000 kW. each.		430·00	1961	1967–68
Sholayar H. E.	A dam across the river Chalakudi 67·6 km. north-east of Chalakudi in Trichur district.	Three units of 18,000 kW. each.	Whole state as power will be fed in the state grid.	77·4	1960	1968
MADHYA PRADESH						
Amarkantak (Thermal)	At Amarkantak in Shahdol district.	Two units of 30 MW. each in Stage I and one unit of 55 MW. in Stage II.	Jabalpur and Rewa divisions.	Stage I 106·26 Stage II 70·00	Stage I 1961	1965
Chambal H.E.	Chambal.	386 MW.	Mandsaur		March 1970	
Gandhi Sagar	Kotah.	115 MW.			March 1970	
Korba (Thermal)	In the coal fields of Korba in Bilaspur district.	Stage I: Three units of 30 MW. each and one unit of 10 MW. Stage II: Four units of 50 MW. each.	Bilaspur & Raipur divisions.	Stage I 120·3 Stage II 302·8	1956	1969
Ranapratap Sagar	Chambal.	172 MW			March 1970	
Satpura (Thermal)	At Sarni in Patharkhada coal fields in Betul district.	Five units of 62·5 MW. each.	Western Madhya Pradesh.	392·5	1963	1969–70

Name	Location	Installed capacity	Areas benefited	Total cost in Rs. Mill.	Date	
					Commencement	Completed
			MAHARASHTRA			
Bhusawal (Thermal)	At Bhusawal, Jalgaon district.	One unit of 62,500 kW.	Khandesh area.	86·00	1961–62	1968
Khaperkheda (Thermal)	At Khaperkheda about 32 km. from Nagpur.	Three units of 10 MW. each, one unit of 30 MW. on first extension and two units of 30 MW. each on second extension.	Vidarbha region.	138·5	1960–61	1964
Koyna H. E.	Dam across the river Koyna at Deshmukhwadi near Helwak in Satara. Underground power station is located at Pophali below ghats.	Stage I: Four units of 60 MW. each. Stage II: Four units of 75 MW. each & Stage III: Four units of 80 MW. each.	Bombay, Pune, Satara, Sangli & Kolhapur districts.	Stage I 382·79 Stage II 181·60 Stage III 380·00	1954	Stage I 1963 Stage II 1967–68 Stage III V Plan
Nagpur (Thermal)	At Koradi village about 8 km. north of Nagpur.	Stage I: Two units of 120 MW. each. Stage II: Two units of 120 MW. each.	Vidarbha and Marathwada regions.	Stage I 478·8 Stage II 387·2	1967	Stage I IV Plan Stage II V Plan
Nasik (Thermal)	At Aklahare village about 5 km. from the Nasik Rd. Rly. Stn.	Two units of 140 MW. each and one unit of 110 MW. on extension.	Western Maharashtra over Koyna-Tata-Nasik interconnected grid.	478·5 190·00 (Extension)	1965–66	1970 and Extn. during V Plan
Paras (Thermal)	At Paras about 19·2 km. from Akola.	One unit of 30 MW. and one unit of 62·5 MW.	Marathwada region.	83·6	1961–62	1968
Parli (Thermal)	At Parli about 9 km. from Parli-Vaijanath Railway Station on river Godavari.	Two units of 30 MW. each.	Marathwada region.	178·0	1965–66	1972–73
Vaitarna (Hydro)	Two dams, one on Vaitarna river and the second dam on Alawandi, a tributary of Vaitarna near Jarwar in Nasik district.	One unit of 60 MW.	Whole State as the power generated will be fed into the State grid.	141·3	1963–64	End of IV Plan
			ORISSA			
Balimela (Hydro)	Storage dam near Balimela across the river Sileru, a tributary of Sabari river.	Stage I: Six units of 60 MW. each. Stage II: Two units of 60 MW. each.	Whole State, as the power generated will be fed into the State grid.	447·1	1961–62	V Plan

Name	Location	Installed capacity	Areas benefited	Total cost in Rs. Mill.	Date	
					Commencement	Completed
		ORISSA — *Contd.*				
Talcher (Thermal)	Situated 3·2 km. from Talcher Railway Station.	Four units of 62·5 MW. each.	Whole State as the power generated will be fed into the State grid.	348	1961	1969
		PUNJAB				
Bhatinda (Thermal)	Bhatinda.	Two units of 110 MW. each.	Whole of Punjab.	57·55	1970–71	1974
Shanan (Hydro)	Joginder Nagar, H.P.	One unit of 100 MW.	Punjab and H.P.	112·10	1969–70	1973–74
Upper Bari Doab (Hydro)	On the channel, taking off from Upper Bari Doab Canal, at the site of the regulator of Salampur feeder.	Three units of 15 MW. each.	Whole State as power generated will be fed into the State grid.	159·40	1963	1971
		RAJASTHAN				
Jawahar Sagar[1] Dam (Hydro)	A dam across the river Chambal 29 km. upstream of Kotah city in Bundi district.	Three units of 33,000 KW. each.	Kotah, Jaipur, Bundi, Ajmer, Nagore, Jhalawar, Sawai Madhopur, Tonk, Bhilwara, Udaipur districts.	184·20	1962	1971–72
		TAMIL NADU				
Ennore (Thermal)	Ennore, about 12·9 km. north of Madras city.	Stage I: Two units of 60 MW. each & two units of 110 MW. each Stage II: One unit of 110 MW.	Madras, Chingleput & North Arcot districts.	Stage I 637·11 Stage II 168·50	1964	Stage I 1971 Stage II 1973–74
Kodayar (Hydro)	Across the Kodayar river in Kanyakumari district.	One unit of 60 MW. and another of 40 MW.	Southern part of the State.	188·35	1962–63	1970–71
Kundah (Hydro)	Dams at Upper Bhavani, Persons Valley, Porthimund, Avalanche Emerald, Kundah Palam, Pillur and Pegumbahalah.	Stages I & II: 145 MW; Stage III: 245 MW; Stage IV: 110 MW.	Whole State as the power generated will be fed into the State grid.	Stages I & II 354·40 Stage III 368·90 Stage IV 30·00	1956	Stages I & II 1961 Stage III 1965–66 & Stage IV during IV Plan
Mettur Tunne (Hydro)	Built across the river Cauvery, about 51·5 km. from Salem town.	Stage I: Two units of 50 MW. each. Stage II: Two units of 50 MW. each.	Whole State as the power generated will be fed into the State grid.	118·16	1960–61	1965–66

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[1] Areas benefited includes Western districts of Madhya Pradesh.

Name	Location	Installed capacity	Areas benefited	Total cost in Rs. Mill.	Date	
					Commencement	Completed
			TAMIL NADU — *Contd.*			
Neyveli (Thermal)	At Neyveli between Vridhachalam and Cuddalore in the South Arcot district about 225 km. from Madras city.	Stage I: Five units of 50 MW. each. Stage II: One unit of 50 MW. and one unit of 100 MW; Stage III: Two units of 100 MW. each.	Whole State as the power generated will be fed into the State grid.	Stage I 293·00 Stage II 183·00 Stage III 241·00	1956	1970
Pandiyar, Punnapuzha (Hydro)	In Nilgiris District. The dams are: Pandiyar, Punnapuzha, Yellanalai, Forebay.	Single power station of 100 MW. capacity.	Whole of the State as the power generated will be fed into the State grid.	192·3	1968–69	V Plan
Periyar (Hydro)	About 64 km. south-east of Madurai town.	Stage I: Three units of 35 MW. each and Stage II: One unit of 35 MW.	Whole State as the power generated will be fed into the State grid.	Stage I 104·8 Stage II 8·88	1955	Stage I 1959 Stage II 1965
			UTTAR PRADESH			
Harduaganj (Thermal)	At Harduaganj, near Aligarh.	Stage I: Two units of 30 MW. each; Stage II: One unit of 30 MW; Stage III: Two units of 50 MW. each; Stage IV: Two units of 55 MW. each & Stage V: One unit of 120 MW.	Whole State through interconnected system.	Stage I 55·93 Stage II 44·00 Stage III 180·00 Stage IV 215·60 Stage V 197·50	Stage I 1962 Stage II 1964 Stage III 1965 Stage IV 1968 Stage V N.A.	1963 1965 1968 1971 1975
Kanpur (Thermal)	Kanpur.	Two units of 32 MW. each & Two units of 110 MW. each on Extension Stage.	Whole State through interconnected system.	441·3	1965	Stage I 1968 Extn. Stage V Plan
Obra (Hydro)	Dam across the river Rihand 53·2 km. downstream of Rihand Dam.	Three units of 33 MW. each.	Whole State through interconnected system.	242·4	1963	1971
Obra (Thermal)	At Obra in Mirzapur district.	Five units of 50 MW. each, Obra extn. Stage I: Three units of 100 MW. each & Stage II: Three units of 200 MW. each.	Whole State through interconnected system.	1,835·70‡	Stage I 1963 Stage II 1970–71	1971 V Plan

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‡ Total cost includes Rs. 630·00 mill. for Stage I extn. and Rs. 900·00 mill. extn., under Stage II.

Name	Location	Installed capacity	Areas benefited	Total cost in Rs. Mill.	Date	
					Commencement	Completed
UTTAR PRADESH — *Contd.*						
Rihand (Hydro)	A dam across the river Rihand near Pipri village in Mirzapur district.	Six units of 50,000 kW.	Whole State through interconnected system.	378·00	1952-53	1966
Yamuna (Hydro)	A barrage at Dhakpathar, 40 km. from Dehra Dun and a diversion dam at Ichari across the river Tons, 12·8 km. north-west of Kalsi in Dehra Dun district.	Stage I: Three units of 11·25 MW. each at Dhakrani; three units of 17 MW. each at Dhalipur. Stage II: Four units of 60 MW. each at Chibro & four units of 30 MW. each at Khodri.	Whole State through interconnected system.	Stage I 168·3 Stage II 702·00	1960–61 1966–67	Stage I 1969–70 Stage II V Plan
WEST BENGAL						
Bandel (Thermal)	Bandel, 64 km. north of Calcutta.	Four units of 82·5 MW. each.	Lower Bengal region.	322·7	1962	1966
Durgapur Coke Oven Station (Thermal)	Durgapur.	Stage I: Two units of 30,000 kW. each and extn. 75,000 kW. unit; Stage II: Two units of 75,000 kW. each and on extn. one unit of 150,000 kW.	Durgapur and lower Bengal area.	356·12†	1960	V Plan@
Jaldhaka (Hydro)	A barrage across the river Jaldhaka 244 m. below the confluence of Bindu Khola in Darjeeling district and a power house near Jhalong 22·4 kms from Chapramari on Assam Railway link.	Two units of 9,000 kW. each under Stage I and one unit of 9,000 kW. (Extn.).	Jalpaiguri & Cooch-Bihar.	107·5	1961	Stage I 1967 Extn. 1970–71
Santaldih (Thermal)	At Santaldih upstream of Panchet reservoir and on the bank of the river Damodar in Purulia district.	Four units of 120 MW. each.	Lower Bengal.	750·00	1966	V Plan§

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† Total cost includes Stage I extension Rs. 67·7 million, Stage II and extension Rs. 148·42 mill. and Rs. 140·0 respectively.

@ The work on Stage I & II, and extension under Stage I was completed by 1966.

§ Two units were to be completed during IV Plan.

Name	Location	Installed capacity	Areas benefited	Total cost in Rs. Mill.	Date	
					Commencement	Completed
SCHEMES UNDER DVC						
Bokaro (Thermal)	In the district of Hazaribagh within 2 km. from Bokaro Railway Station.	Stage I: Three units of 50 MW. each. Stage II: One unit of 75 MW.	Damodar valley and adjoining areas in Bihar and West Bengal.	Stage I 156·6 Stage II 45·00	Stage I 1950 Stage II 1957	1954 1960
Chandrapura (Thermal)	In Hazaribagh district, about 2·4 km. from the Chandrapura Railway Station.	Stage I: Two units of 140 MW. each. Stage II: One unit of 140 MW. Stage III: Two units of 120 MW each.	Damodar valley and adjoining areas of West Bengal and Bihar.	Stage I 288·47 Stage II 134·6 Stage III 359·4	Stage I 1960 Stage II 1964 Stage III IV Plan	1965 1968
Durgapur (Thermal)	In Burdwan district near Oyaria Rly. Station.	Stage I: Two units of 75 MW. each. Stage II: One unit of 140 MW.	Damodar valley and adjoining areas in Bihar and West Bengal.	Stage I 127·00 Stage II 136·9	1957 1963	1961 1966
Konar Dam	Across the Konar river in Hazaribagh district in Bihar.			97·5	1950	1955
Maithon	Dam across the river Barakar in Bihar.	Three units of 20,000 kW. each.			1951	1958
Panchet Hill Project	Across the river Damodar in Dhanbad district of Bihar.	One unit of 40,000 kW.		191·4	1952	1959
Tilaiya	Across the river Barakar about 19·3 km. from Kodarma Railway Station.	Two units of 2,000 kW. each with provision for a third unit.		37·1	1950	1953
CENTRAL PROJECTS						
Badarpur (Thermal)	Thermal Station at Badarpur village at 16 km. from Delhi.	Three units of 100 MW. each.	The whole of Delhi.	560·00	1968–69	IV Plan
Baira Suil (Hydro)	A rock-filled dam across the Baira stream in H.P.	Three units of 67 MW. each.	Himachal Pradesh and northern grid.	204·9	1969	V Plan
Loktak (Hydro)	Barrage across the river Manipur at Ithai in Manipur.	Stage I: Two units of 35 MW. each. Stage II: One unit of 35 MW.		102·5	1969	V Plan

NEW POWER PROJECTS

The following are the region-wise names of some of the major power projects in operation or under construction at the end of IV Plan, with names of beneficiary States in brackets and the capacity in MW respectively :

Northern Region : Anandpur Sahib H. E. Scheme: 27·5 Bassi H. E. Scheme Extn. (Himachal Pradesh) 15; Baira-Siul H. E. Scheme (Central Jammu & Kashmir) 201; Badarpur Thermal Stn. (Central Delhi) 200; Beas H. E. Unit I (Punjab, Haryana & Rajasthan) 660; Beas H. E. Unit II (Punjab, Haryana & Rajasthan) 240; Chenani H. E. Scheme (Jammu & Kashmir) 9; Faridabad Thermal Station (Haryana) 120; Giri Bata H. E. Scheme (Himachal Pradesh) 60; Guru Nanak Thermal Station (Punjab) 220; Harduaganj Thermal Stn. Extn. (Uttar Pradesh) 110; Harduaganj Thermal Stn. Stage IV (Uttar Pradesh) 110; Lower Jhelum H. E. Scheme (Jammu & Kashmir) 105; Maneribhali H. E. Scheme Part I (Uttar Pradesh) 90; Mukerian H. E. Scheme (Punjab) 14; Obra Thermal Stn. Extn. I & II (Uttar Pradesh) 200 and 600 respectively; Panipat Thermal Stn. (Haryana) 220; Panki Thermal Stn. Extn. (Uttar Pradesh) 220; Rajasthan Atomic Power Stn. (Central) 235; Ramganga H. E. Scheme (Uttar Pradesh) 198; Rishikesh Hardwar H. E. Scheme (Uttar Pradesh) 108; Shanon H. E. Scheme Extn. (Punjab) 50; Sumbal H. E. Scheme (Jammu & Kashmir) 22; U.B.D.C.H.E. Extn. (Punjab) 45; Yamuna H. E. Scheme Stages II & IV (Uttar Pradesh) 360 & 30 respectively.

Eastern Region : Balimela H. E. Scheme (Orissa) 240; Bandel Thermal Stn. Extn. (West Bengal) 200; Barauni Thermal Stn. Extn. I (Bihar) 110; Bokaro Thermal Stn. Extn. (DVC) 200; Chandrapura Thermal Stn. V Unit (DVC) 120; Chandrapura Thermal Stn. VI Unit (DVC) 120; Durgapur Thermal Stn. Extn. (DVC) 200; Farakka Thermal Stn. (Central) 110; Jaldhaka H. E. Scheme Stage II (West Bengal) 8; Kolaghat Thermal Stn. (West Bengal) 200; Kosi H. E. Scheme (Bihar) 5; Patratu Thermal Stn. Extn. I (Bihar) 200; Patratu Thermal Stn Extn. III (Bihar) 220; Panchet Hill H. E. Scheme Extn. (DVC) 40; Santaldih Thermal Stn. (West Bengal) 360; Subarnarekha H. E. Scheme (Bihar) 130; Talcher Thermal Stn. Extn. (Orissa) 220; Tenughat Thermal Stn. (Bihar) 200.

North-Eastern : Chanderpura Thermal Stn. Extn. (Assam) 30; Gurati H. E. Scheme (Tripura) 10; Kyrdem Kulai H. E. Scheme (Assam) 60; Loktak H. E. Scheme (Central Manipur) 70; Loktak H. E. Scheme Extn. (Central) 35; Namrup Thermal Stn. Extn. (Assam) 30.

Southern Region: Ennore Thermal Stn. Extn. (Tamil Nadu) 110; Idikki H. E. Scheme (Kerala) 390; Idikki H. E. Scheme Stage II (Kerala) 390; Idamalayar H. E. Scheme (Kerala) 30; Kalapakkam Atomic Power Project (Central) 470; Kalinadi H. E. Scheme Stage I Phases I & II (Karnataka) 775; Kothagudem Thermal Stn. Stage III (Andhra Pradesh) 110; Kothagudem Thermal Stn. Extn. Stage IV (Andhra Pradesh) 220; Kundah H. E. Scheme Stage IV (Tamil Nadu) 110; Linganamakki H. E. Scheme (Karnataka) 55; Lower Sileru H. E. Scheme (Andhra Pradesh) 400; Nagarjunasagar H. E. Scheme (Andhra Pradesh): 110; Sharavati H. E. Scheme Stage III (Karnataka) 178·2; Suruliar H. E. Scheme (Tamil Nadu) 35; Tuticorin Thermal Stn. (Tamil Nadu) 200; Upper Sileru H. E. Scheme Extn. (Andhra Pradesh) 120; Vijayawada Thermal Stn. (Andhra Pradesh) 200.

Western Region : Amarkantak Thermal Stn. Extn. (Madhya Pradesh) 240; Bhatnagar H. E. Scheme (Maharashtra) 16; Bhira Tailrace H. E. Scheme (Maharashtra) 80; Bhusawal Thermal Stn. Extn. (Maharashtra) 220; Gandhi Nagar Thermal Stn. (Gujarat) 240; Koradi Thermal Stn. (Maharashtra) 360; Koradi Thermal Stn. Stage III (Maharashtra) 600; Korba Thermal Stn. Extn. I (Madhya Pradesh) 120; Korba Thermal Stn. Extn. (Madhya Pradesh) 220; Koyna H. E. Scheme Stage III (Maharashtra); Nasik Thermal Stn. Extn. (Maharashtra) 220; Penoh H. E. Scheme (Madhya Pradesh & Maharashtra): 160; Paithan H. E. Scheme (Maharashtra) 12; Satpura Thermal Stn. Extn. (Madhya Pradesh) 200; Tillari H. E. Scheme (Maharashtra) 60; Ukai H. E. Scheme (Gujarat) 300; Ukai Thermal Stn. (Gujarat) 240; Ukai Thermal Stn. Extn. (Gujarat) 200; Vaitarna H. E. Scheme (Maharashtra) 60.

(Also see Chapter on 'Energy Crisis').

FLOODS

BACKGROUND : Monsoon in India is erratic and its intensity variable. Floods cause heavy damage to numerous irrigation works and irrigated areas. The sudden floods in the Ganga in 1970 led to heavy silting up of the Upper Ganga Canal which resulted in the closure of the canal for nearly nine weeks during critical parts of the kharif season. Complete protection from floods can seldom be achieved, even if it were technically feasible. Works for cent per cent protection from floods may also not be economically justifiable. Most flood control works aim at minimising the flood damage and protecting the maximum area.

Flood Regions : Ganga is formed at Devprayag, where the Alaknanda and the Bhagirathi meet. It flows south and then south-east through the great plains to Farakka, which is the apex of the Ganga delta. In its long course through the foot-hills and plains, it gathers the water of the Ramganga, the Yamuna, the Tons, the Gomati, the Ghaghara, the Son, the Gandak, the Burhi Gandak, the Baghmati, the Kosi and the Mahanadi. The Ganga-Yamuna, Ghaghara, Tapti, Gandak, Bagmati and Kosi — cover parts of the Punjab, Uttar Pradesh, Rajasthan, Bihar, West Bengal, Delhi and Himachal Pradesh.

Brahmaputra Basin : Brahmaputra, Barak, Teesta, Torsa and Raidak — covers Assam and West Bengal. Brahmaputra lies in the seismic zone and brings down sediment. These rivers have a smaller catchment than either the Ganga or the Indus and gathers in its long course through Tibet, India and Bangladesh, the waters of Raka Tsangpo, the Nagang chu, the Kyichu, the Giamda chu, the Dibang, the Disang, the Kopli, the Dhansiri, the Lohit, the Subansiri, the Kameng, the Manas, the Tista and the Benhi Dihing.

North Western River Basin : Jhelum, Chenab, Ravi Beas, Sutlej — covers Jammu & Kashmir, parts of Punjab and Himachal Pradesh.

Central India and Deccan : Mahanadi, Brahmini, Baitarni, Godavari, Krishna and Tapti — covers Orissa, Andhra Pradesh, Madhya Pradesh, Maharashtra, Gujarat, Karnataka, Kerala and Tamil Nadu.

The Godavari : Of the east-flowing rivers of Peninsular India, the Godavari is the largest. It rises in the Nasik district of Maharashtra and flows across the Deccan plateau into the Bay of Bengal and passes through Maharashtra, Madhya Pradesh and Andhra Pradesh.

The Krishna : It flows from West to East through Maharashtra, Karnataka and Andhra Pradesh before falling into the Bay of Bengal.

The Mahanadi : One of the great rivers of India, the Mahanadi is 858 kms. in length with a catchment of 132,090 sq. kms. It rises near Sihawa in the Raipur district of Madhya Pradesh.

The Kaveri : The Kaveri, which fourth largest of the east-flowing rivers, is one river whose potential has been almost completely utilised. It rises near Mercara in Coorg district of Karnataka at an elevation of 1,341 metres above sea level. It is joined in its course through Karnataka and Tamil Nadu by a large number of rivers such as the Hemvati, the Lakshmantirtha, the Bhavani etc.

Flood Prone Areas : According to the studies made by Dr. Khosla in 1949 (the then Chairman of C. W. & P. C.), the total annual flow of all the river systems in India comes to 1,672,599 m.cu.m. (1,356 million acre feet). Another appraisal of the water resources of the country made in 1960 based largely on statistical analysis of the flow-data and on suitable rainfall run off relationship (wherever observed data was meagre) puts the total flow at 1,881,057 m.cu.m. (1,525 million acre feet). Several studies have also been undertaken by the Surface Water Resources Directorate (SWRD) of the C.W. & P.C. However, various estimates do not tally and this clearly underscores the importance of scientific observation for each river system. Only one third of water resources available in the country could be used for agricultural purposes.

Floods have been damaging large irrigated areas in the Indo-Gangetic plain, particularly in North Bihar, eastern Uttar Pradesh, the Punjab, Haryana, portion of Rajasthan and also the coastal areas in Orissa, Andhra Pradesh and Tamil Nadu. The damage is acute in the delta areas of Mahanadi, Godavari, Krishna and Kaveri rivers. Floods also cause damage to the areas irrigated by tanks in Peninsular India, particularly where these tanks are in series and the breaching of one tank leads to the failure of tanks below.

The total area liable to floods in India is estimated to be about 20 million hectares.

On an average, floods affect an area of 6.7 million hectares annually including 2.6 million hectares under crops.

Sixty per cent of flood damage is caused by Himalayan rivers (Ganga, Brahmaputra and their tributaries). Damage from cyclones and rain is about 40 per cent — of the total. Heavy floods in peninsular rivers (Godavari, Krishna, Pennar and Cauvery) have been occurring only at long intervals and almost all the damage caused in this area is by cyclones and heavy rainfall. In Himalayan region, two-third damage is caused by floods and one-third by the rains. In the Central rivers (Tapti, Narmada and Chambal) damage is the least and mostly by rains. About 33 per cent of the flood-prone area has been protected, at a cost of about Rs. 3,000 million, against floods since the first comprehensive plan to tackle flood which took shape in 1954. Present plan is to cover an equal area by 1981. In another 10 years, another 27 per cent will be protected. The total flood area that can reasonably be protected has been assessed to be about 16 million hectares.

The flood menace has been tackled by the raising and strengthening of existing embankments, provision of new embankments, river training works and protection of towns. The best way to control floods is to intercept them with storage reservoirs, so that only moderated floods are allowed to flow through the valley below. However, reservoirs constructed merely to detain and moderate floods may not be economically justifiable. On the other hand, those constructed for irrigation, power, etc., could be planned to provide for flood control also. The works carried out by the Damodar Valley Corporation in the Damodar river basin and the various benefits conferred by them are result of such planning where the primary aim was flood control. The rains experienced all over the Damodar Valley in the middle of September, 1958, led to a high flood in the Damodar and its tributaries. Had there been no reservoirs, the maximum flow at Durgapur would have been of the order of 18,800 cumecs and would have caused considerable damage in the valley. But the flood was absorbed by the reservoirs and their careful operation helped to avert a catastrophe. The Hirakud reservoir is another multipurpose project that was primarily meant for flood control. The reservoir is not filled to capacity till the middle of August so that it can absorb whatever floods may come in.

Another factor which contributes towards making large areas flood-prone are the indiscriminate cutting of trees and unauthorised grazing that is allowed in the foothills. The region traversed by the Himalayan rivers is also subject to earthquakes and land-slides, which makes large areas flood-prone. Growing frequency of floods in Andhra Pradesh, Maharashtra, Gujarat and Rajasthan can also be traced to deforestation.

Flood Damage — The worst affected areas in 1974 were Bihar, Uttar Pradesh, Assam and West Bengal. Kerala, Manipur, Orissa and Karnataka were also affected. The annual average damage, which is mostly to crops, houses and public utilities has been estimated to be about Rs. 1,260 million. Almost 70 per cent of the damage relates to crops. Besides, there are indirect losses resulting from the break-down of communications and essential services and the expenditure on relief operations.

The total damage caused by floods in 1974 was Rs. 2,819 million. About 16 million people were affected, 5.8 million hectares of land were flooded and crops in 1.9 million hectares were destroyed. Damage to crops was about Rs. 2,119 million. About 243 human lives were lost and 265,163 houses collapsed and 1,270 heads of cattle perished.

Flood control — It was only in 1954 that a comprehensive National Flood Control Policy came into being. It was to be implemented in three stages — (*a*) immediate measures — which needed to be completed in two years or so; (*b*) short term measures — which included the construction of channel diversions, raising of villages, construction of more embankments and protection of more towns (to be executed over 6–7 years); and (*c*) long term measures — includes storage reservoirs, detention basins additional embankments, channel diversions and protection of towns (to be completed and taken up in stages).

Rs. 1,634 million were spent in the First, Second, Third and the Fourth Five Year Plans for flood control. Of the 16 million hectares usually ravaged by floods, 7.1 million hectares have been protected. By March 1974 (Rs. 3,526) million had been spent to protect 35 per cent of the flood prone areas. A decade plan (1971-81) estimated to cost Rs. 5,400 million has been prepared with the objective of providing protection to about 50 per cent of the flood prone areas by 1981. An outlay of Rs. 10,000 million is needed to protect most of the areas which are normally affected by floods. Total and all time protection is not possible as the factors that lead to floods are variable. However, by the end of March 1974, 7,500 kms. of embankments, 11,500 kms. of drainage channels and 205 town protection schemes had been completed to benefit an area of 7.1 million hectares. 4,600 villages had been aised above high flood level and 95 kms. of sea coast protected. It is proposed to accelerate the programme of flood control in the Fifth Plan and the total outlay proposed for the purpose is Rs. 3,010 million. Actual outlay on flood control, drainage and water logging and sea coast protection schemes :

Period	Outlay (Rs. in million)
1st Plan	133
2nd Plan	499
3rd Plan	866
4th Plan	1,750
5th Plan	3,010
1974-75 including outlay for the central sector)	394

Measures suggested by the Irrigation Commission (1972) for Flood Control.

Integrated Planning for Flood Control & Other benefits — In planning and designing future river valley projects, multipurpose dams, singly or as a part of basin plan, the flood control aspect should be prominently kept in view.

Construction of embankments — It is necessary to construct embankments in order to protect large areas on either side of the lower reaches of a river. In providing embankments on a river to prevent the inundation of adjoining areas, the attendant problem should be carefully considered and suitable designs evolved to minimise ill effects. The most important precaution to be taken is to provide suitable drainage for the land behind the embankments. The drainage should be led through sluices in the embankment or into the river below the embanked reach.

Maintenance of embankments — An annual systematic post monsoon check of all important embankments should be made and necessary repairs undertaken.

Flood forecasting — Flood forecasting is important for the operation of multipurpose reservoirs. Regulators in canal system can be operated in time if a flood warning is received sufficiently in advance. Flood forecasting services need to be established at all places vulnerable to floods.

Flood patrolling — Patrol rules should be prepared and made available for guidance at all places vulnerable to floods. These should include instructions for the maintenance and checking of flood stores and the manner of dealing with emergencies.

Other flood control measures — Some time it may be possible to divert a portion of the flood from a river into an adjacent valley or away from an area where it causes damage. The Budameru in Andhra Pradesh is an example. The flood carrying capacity of a river cannel could be improved by deepening and widening it and by removing bad curves.

The systematic collection of hydrological data is important for forecasting floods and designing flood protection measures.

Drainage problem : Surplus water is as harmful to crops as inadequate water. It is not only the accumulated surface water from heavy precipitation or flood water that needs draining, but also the excess water in the field due to over irrigation or seepage from an adjacent channel that has to be removed to help crop growth. For example, the rainfall in parts of West Bengal is sufficiently heavy to permit a rice crop to be raised successfully without any irrigation, but without proper drainage the crop cannot thrive. The importance of drainage is so well recognised in advanced countries that it is always considered an integral part of any irrigation scheme. The Brahmputra and the Barak valleys, parts of Gujarat and in the deltaic areas of the rivers like the Ganga, the Mahanadi, the Godavari, the Krishna and the Kaveri the drainage problem is naturally acute. In the case of deltas there may be some tracts whose levels are just a few feet above sea level. The drains in such tracts are generally affected by tides from the sea and the drainage flow is held up for a part of the day. West Bengal has drainage difficulties over about 0.4 million hectares. Andhra Pradesh, besides experiencing the usual drainage difficulties in its deltaic areas has a major drainage problem at the junction of the Godavari and Krishna Deltas. The Government of Andhra Pradesh is taking steps to give relief to this area by constructing detention reservoirs across the big streams flow into the Kotteru from outside the delta, and improving the capacity of the Lepputeru including the formation of flood embankments and a straight cut to the sea from an appropriate point.

Money spent on drainage in the last decade has been over Rs. 500 million (60 per cent of this has been spent in Haryana and Punjab). Drainage continues to pose a problem into other parts of the country. In the Fifth Plan, adequate measures are supposed to be taken up for drainage and anti-waterlogging, mainly in the States of Punjab and Haryana and to some extent in Uttar Pradesh and the Deltaic tracts of Andhra Pradesh and Tamil Nadu where old irrigation schemes have been in operation for a very long time. It is envisaged that the drainage problem in the command areas of the continuing and new irrigation projects will also receive special attention.

State-wise outlay on Flood Control since First Plan

(Rs. million)

Name of State	Expenditure from 1st Plan upto end of March, 1974	Approved outlay 1974-75
Andhra Pradesh	55	45
Assam	526	10
Bihar	704	60
Gujarat	63	19
Haryana	214	10
Himachal Pradesh	11	1
Jammu & Kashmir	176	9
Karnataka	6	—
Kerala	131	16
Madhya Pradesh	8	1
Maharashtra	5	1
Manipur	12	3
Meghalaya	1	2
Orissa	117	7
Punjab	431	30
Rajasthan	90	8
Tamil Nadu	3	6
Tripura	11	2
Uttar Pradesh	414	30
West Bengal	407	65
Union Territory		
Arunachal Pradesh	—	Neg.
Dadra & Nagar Haveli ..	—	Neg.
Delhi	132	20
Goa, Daman & Diu	3	2
Pondicherry	6	1
Total	3,526	348

Neg.—Negligible.

Statement of flood damage since 1953 in the country

Year	Area affected in million hects.	Population affected in millions	Damage to crops		Damage to houses		Cattle lost numbers	Human lives lost numbers	Damage to public utilities in million Rs.	Total damage crops, houses & public utilities (cols. 5+7+10) millions
			Area in hects.	Value in million rupees	Numbers	Value in Rs. million				
1	2	3	4	5	6	7	8	9	10	11
1953 ..	5.94	25.28	0.93	420.60	98,838	92.40	57,028	34	29.00	542.00
1954 ..	7.48	18.24	2.65	410.01	220,060	67.21	22,514	279	101.57	578.79
1955 ..	11.17	30.95	5.40	779.55	1,741,978	327.84	77,437	889	79.56	1,186.95
1956 ..	8.01	14.84	2.10	420.32	721,199	80.80	16,903	462	12.16	513.28
1957 ..	4.97	7.79	0.45	145.56	314,577	52.74	7,537	304	41.97	240.27
1958 ..	6.24	11.44	1.49	435.34	461,316	61.63	18,766	400	17.92	514.89
1959 ..	4.20	13.89	1.54	572.17	652,622	94.40	66,479	622	120.23	786.80
1960 ..	7.63	8.68	2.65	461.32	651,720	148.26	13,982	520	64.84	674.42
1961 ..	6.53	9.31	1.83	249.45	817,861	9.70	18,061	1,389	63.41	322.56
1962 ..	6.12	15.73	3.56	802.87	520,741	114.55	39,814	354	10.51	927.93
1963 ..	3.56	11.10	1.97	312.36	406,994	37.27	4,915	419	31.20	380.83
1964 ..	4.62	14.00	2.47	570.83	266,634	47.98	5,430	695	53.64	672.54
1965 ..	1.04	3.30	0.25	54.13	32,451	1.57	7,294	88	0.42	56.12
1966 ..	4.23	12.41	1.61	640.40	156,601	7.70	8,868	165	4.10	652.20
1967 ..	7.08	26.50	3.30	1,195.50	601,316	98.40	5,921	358	73.80	1,367.70
1968 ..	8.25	21.47	2.69	1,371.01	798,661	402.83	103,356	3,498	253.33	2,627.17
1969 ..	9.54	32.00	4.34	2,110.19	1,242,237	537.89	270,173	1,401	685.06	3,333.14
1970 ..	8.45	32.24	4.85	1,617.81	1,434,029	486.06	19,198	1,076	764.33	2,868.20
1971 ..	13.25	59.24	6.23	4,226.28	2,308,044	797.64	12,866	1,141	1,291.13	6,315.05
1972 ..	15.73	27.22	2.46	985.58	897,257	124.60	58,861	544	471.75	1,581.93
1973 ..	16.16	33.09	7.86	3,734.03	831,701	470.45	257,708	1,267	786.99	4,991.47
1974 ..	5.77	16.24	1.85	2,118.56	265,163	211.36	1,270	243	488.56	2,818.48

Statement on flood damages during 1974 (as on 22-8-1974)

Name of State	Area affected in mill. hectares	Population affected in millions	Damage to crops		Damage to houses		Cattle lost in Nos.	Human lives lost in Nos.	Damage to public utilities Rs. in mill.	Total loss in mill. Rs.
			Area in mill. hects.	Value Rs. in millions	Nos.	Value Rs. in millions				
1	2	3	4	5	6	7	8	9	10	11
Assam	3.11	4.00	0.32	400.00	16,371	50.00	751	23	50.00	500.00
Bihar	1.54	7.88	0.89	926.39	114,215	41.15	76	27	N.R.	967.54
Gujarat	N.R.	N.R.	0.01	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
Karnataka	Neg.	0.06	Neg.	3.10	9,959	20.00	187	7	16.90†	40.00
Kerala	0.05	0.06	0.03	24.60	10,000	*	N.R.	46	50.30	74.90
Madhya Pradesh ..	N.R.	N.R.	N.R.	N.R.	13	—	N.R.	2	Neg.	Neg.
Maharashtra	Neg.	0.01	Neg.	0.39	254	0.45	30	106	2.10	2:94
Manipur	Neg.	Neg.	Neg.	5.00	2,123	3.30	Nil	3	2.33	10.63
Orissa	0.07	0.43	Neg.	4.10	3,722	1.36	3	Nil	1.79	7.25
Punjab	Neg.	Neg.	Neg.	0.01	1,000	0.10	9	2	N.R.	0.11
Rajasthan	N.R	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	3	15.00†	15.00
Uttar Pradesh ..	0.77	2.63	0.53	650.00	63,318	95.00	13	20	350.00	1,095.00
West Bengal	0.24	0.62	0.07	104.90	44,188	N.R.	2.01	4	0.14	105.04
Arunachal Pradesh ..	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
Mizoram	Neg.	N.R.	Neg.	0.07	Nil	Nil	Nil	Nil	Nil	0.07
Total	5.78	16.24	1.85	2,118.56	265,163	211.36	1,270	243	488.56	2,818.48

Neg. : Negligible. * Included under crops. N.R. : Not reported. † Break-up not reported.

SEA EROSION

Even though sea erosion occurs at different places along the 5,700 kms. stretch of the coastline of India, the problem is of a serious nature in a length of about 320 kms. coastline of Kerala. Protection measures were started at the end of the First Plan. A length of 95 kms. is expected to be protected by the end of the Fourth Plan at a cost of of about Rs. 177 million. Special financial assistance of Rs. 20 million was provided to the Government of Kerala during 1972-73 and another Rs. 240 million during 1973-74 for enabling them to make better progress on anti-sea erosion measures during the Fourth Plan.

The tempo of anti-sea erosion measures would be maintained during the fifth Plan for which a provision of Rs. 200 million has been proposed. The outlay proposed during 1974-75 is Rs. 30 million.

Policy : There has been a progressive increase in the damage, due to floods in monetary terms, on account of several reasons including the rise in prices, particularly of crops, the mounting pressure on land from the ever increasing population which induce people to occupy or build and cultivate on traditional ponds, depressions and Khadir lands; the role played by development works such as roads, railways, canals, etc., firstly by exposing more public property to damage and secondly by accentuating damaging capability of waters by transforming sheet flows into concentrated flows through culverts, siphons, bridges, aquaducts, etc. The flood control measures have, therefore, to keep pace with the general tempo of economic and other developmental activities.

The flood control measures undertaken so far have, no doubt, been helpful but there is a need to supplement these engineering works with measures for the positive control of the events which cause an increase of damage potential and actual loss. These measures should include proper land use planning and regulation. There is also need for long range planning and preparation of master plans to indicate the sequencing and priorities of the various measures that may be taken from time to time to fit into the overall plans. To meet the challenge posed by the difficult and complex problems of flood control in the Ganga and Brahmaputra Basin, Boards and Commissions have been set up. In the Fifth Plan, while all the schemes undertaken during Fourth Plan period, including the priority flood control works identified following the 1971 floods will be completed, first priority will be given to the raising and strengthening of existing embankments and other connected flood protection works. Special attention will also be given to the flood control programmes on inter-State rivers where the various works in different States will need to be properly dovetailed and co-ordinated to get the optimum benefits and, at the same time, ensure that the works taken up in one State do not aggravate the conditions of other States.

Floods forecasting centres set up for providing advance warnings of floods in the most vulnerable river basins in the country have been of great assistance in organising effective evacuation and relief measures. The survey programme to precisely demarcate the areas prone to flooding will be accelerated. The Ganga Flood Control Commission (Patna) started functioning from August, 1972. It has prepared an outline plan for flood control in the Ganga basin and is presently engaged in the formulation of detailed basin-wise plans.

DROUGHT

BACKGROUND

CONSTANT famine has been so important a cause of economic dislocation, that the British Government appointed a commission in 1878 to enquire into the problem. One of its important contributions was to draft the Famine Code which was formalised in 1883.

India on an average receives 3,700,400 cubic inches of rain. But there is a variation in the seasonal and the annual distribution of rainfall. Some parts of Rajasthan get as low as 12·70 cms. of rain while hills of Assam get as much as 1,270 cm. About 12 per cent of the country's area receives less than 61 cms. of rain on an average and only 8 per cent more than 254 cms.

Drought : Droughts have been occurring periodically largely due to the variability of south west monsoon from which 80 per cent of the annual rainfall is received during the period from June to September in most parts of the country. Not only a low rainfall but untimely distribution of fairly high rainfall can lead to droughts. Approximate probability of deficient rainfall (deficiency equal to 25 per cent or more of the normal) is once in 4 to 5 years over large areas of the country.

In India, as many as 128 districts accounting for about 68 million hectares have low to medium rainfall under 1,125 mm. annually, and these also have very limited irrigation facilities. Of these districts, 25 districts are characterised by very poor rainfall in the range of 375–750 mm. annually with an irrigated area of 5–10 per cent of the cropped area. Another 91 of these districts receive annual rainfall ranging from 750 to 1,125 mm. The total net sown area in these districts is 42 million hectares of which about 5 million hectares are irrigated. Agriculture in these dry farming areas is faced with the twin problems of low productivity and high instability. Since, by and large, drought regions have low water resources, they may have to depend on rain-fed agriculture with its attendant risk of instability in years of bad monsoon.

The chronically affected drought areas account for 19 per cent of the total geographical area of the country and 12 per cent of its population. With the exception of Kerala in the South, Punjab in the North and the States of North-Eastern region, every State in India has one or more drought prone districts. Nearly 56 per cent of the geographical area of Rajasthan falls within the category of drought prone areas; in terms of population the coverage is 33 per cent. Next to Rajasthan comes Andhra Pradesh, where about 50 per cent of the geographical area and 22 per cent of the population is within the ambit of the drought prone areas. In Gujarat, about 29 per cent of the geographical area and about 18 per cent of the population are within the purview of the areas characterised as drought prone. In Mysore, the corresponding figures are 25 per cent and 22 per cent. These areas are the major factor contributing to regional imbalances in the country. Every third year, about 3 million inhabitants of arid zones take to migration with their livestock. These areas also remain a continuous source of strain on the financial resources of the country. At the all-India level, during the period 1969-70 to 1972-73, the expenditure on drought relief was estimated to be in the neighbourhood of Rs. 7,900 million.

Drought Prone Areas Programme : Over the Plan period, several measures have been taken for the development of drought prone areas. These include: (*a*) development of irrigation; (*b*) formulation of schemes specifically designed to benefit the drought prone/dry areas; (*c*) agricultural research specifically oriented towards the problems of the low rainfall areas; (*d*) scarcity relief wich also helped in creating additional production potential and provision of services like drinking water supply; and (*e*) special programmes like Emergency Agricultural Production programme.

Drought Prone Areas Programme (formerly known as the Rural Works Programme) which made a beginning in 1970-71 has been in operation in 54 districts primarily and contiguous areas of another 18 districts which have been identified as chronically drought prone. These districts have been identified on the following criteria:

(*i*) incidence and pattern of rainfall; (*ii*) percentage of irrigated areas to the total area and (*iii*) the frequency of drought over a period of time.

The districts covered under this Programme are as follows:

Anhdra Pradesh : Anantapur; Kurnool; Cuddappah; Chittor; Mehboobnagar.

Bihar : Monghyr; Palamau; One unit for 3 sub-divisions, namely Nawada sub-division of Gaya District and Bhabhua and Sasaram sub-divisions of Shahabad district.

Gujarat : Panchmahals; Kutch; Jamnagar; Rajkot; Amreli; Banaskantha; Surrendranagar.

Haryana : Mohindergarh.

Jammu & Kashmir : Doda.

Karnataka : Bijapur; Chitradurga; Kolar; Dharwar; Belgaum.

Madhya Pradesh : Jhabua; Dhar; Sidhi; Betul.

Maharashtra : Ahmednagar; Sholapur; Nasik; Pune; Satara; Sangli.

Orissa : Kalahandi; Boudh Phulbani.

Rajasthan : Jaisalmer; Barmer; Pali; Jalore; Bikaner; Churu; Jodhpur; Banswara; Nagaur; Dungarpur.

Tamil Nadu : Dharmapuri; Ramanathapuram.

Uttar Pradesh : Mirzapur; Banda; Allahabad; Varanasi; Hamirpur; Jalaun.

West Bengal : One unit each in Purulia; Midnapur; Bankura.

Contiguous areas selected under drought prone areas programme:

Andhra Pradesh : Ongole; Nalgonda.

Gujarat : Mehsana; Ahmedabad; Bhavnagar.

Haryana : Bhiwani; Hissar; Rohtak.

Jammu & Kashmir : Udhampur.

Karnataka : Gulbarga; Raichur; Bellary; Tumkur.

Madhya Pradesh : Khargaon; Shahdol.

Rajasthan : Udaipur; Ajmer; Jhunjhunu.

Progress : The Programme has made good stride in financial progress starting from a modest expenditure of nearly Rs. 70 million in the first year to over Rs. 670 million in the fourth year. The cumulative expenditure till July 1973 has been about Rs. 740 million as against the total indicative allocation of Rs. 1,000 million available during the Fourth Plan.

In physical terms too, its achievements have been quite satisfactory. Under irrigation, a resource inventory of the available surface and underground water resources is being prepared for management and development of irrigation resources for a long term development of these areas. So far an area of 125,000 hectares has been provided with additional irrigation facilities either through the new works or stabilisation of existing command. Spectacular progress was made in Haryana where Loharu Lift Irrigation Scheme, partly financed from DPAP, was commissioned in record time providing much needed relief in drought stricken areas of Mohindergarh district. Other areas benefiting from additional irrigation are from Uttar Pradesh, Karnataka, Tamil Nadu, Rajasthan, etc. Soil and moisture conservation which is the next priority programme, provided benefit to 442,000 hectares mostly in catchment areas of Karnataka and Maharashtra. A total area of 63,000 hectares was covered under affforestation and pasture development. A sizable amount has been spent in Rajasthan on afforestation and pasture development. The other important States in this field are Andhra Pradesh, Gujarat and Madhya Pradesh. A substantial amount has been spent on roads in Andhra Pradesh, Karnataka, Tamil Nadu and Rajasthan. A total length of 4,760 kms. of roads has been either newly constructed or existing roads upgraded. All these works have resulted in the generation of employment of over 130 million mandays.

Integrated Dry Land Farming Projects : A new broad based approach on integrated area development was accepted for the drought prone areas at the mid-term appraisal of the Fourth Plan.

Activities like development of sheep, cattle and dairying based on Pasture Development Programme were considered more suitable for the purpose. The Fourth Plan introduced 24 pilot integrated dry land farming projects in different agro-climatic and soil zones of the country. The programme had a two-fold approach namely (*a*) research to improve dry land farming technology and (*b*) testing the efficacy of the new technology through dry land farming pilot projects. A Desert Development Programme was also initiated in the Fourth Plan. The programme has been found acceptable to the World Bank for financing. Six projects namely Ahmednagar and Sholapur in Maharashtra; Jodhpur and Nagaur in Rajasthan; Anantpur in Andhra Pradesh and Bijapur in Karnataka have been referred to the Bank for assistance.

Agricultural Research oriented towards low rainfall areas : The All India Co-ordinated Research Project on dry land farming was introduced in 15 centres and 9 sub-centres. This project provides a research base for the integrated pilot dry land farming project. The Central Arid Zone Research Institute was also established in 1959 and has been functioning as a focal point on research on Agricultural problems of arid areas.

Fifth Plan : The main thrust of the strategy to be adopted in the Fifth Plan will be on management and development of irrigation sources, soil and moisture conservation and afforestation measures, popularisation of new dry farming technology, development of animal husbandry linked with dairying. A total allocation of more than Rs. 3,000 million will be available in the State and Central sectors in the 5th Plan.

Development and management of irrigation resources: The Irrigation Commission has computed that at present about 13 per cent of the cropped area of the drought affected region is irrigated. This is likely to rise to about 19 per cent when the schemes under execution are completed. Even so as much as 81 per cent of the cropped areas will remain without irrigation. In the drought areas of Gujarat, Madhya Pradesh, Maharashtra and Karnataka, the position remains much worse. As such, a suitable programme for development and management of irrigation resources has been accorded priority in the Fifth Plan. Apart from improvement in existing irrigation works, various irrigation projects already under construction in the drought prone areas will be completed.

In the intensive development visualised in the Fifth Plan under the Drought Prone Areas Programme, research findings of the co-ordinated dry land farming projects will be applied in large areas. An attempt will be made to apply the findings of the Central Arid Zone Research Institute while framing the afforestation, pasture land development and sand dune fixation programme.

FORESTS

TOTAL forests: 74.6 mill. hectares. Percentage of forests to land: 22.7. **Per capita** forest area 0.14 hectares as compared to world average of 1.08 hectares. An average of 3.6 million people are engaged in forestry activities.

Revenue from forests: Rs. 1,508 million. Forest revenue as percentage of national revenue: 2.2.

By composition, coniferous forests constitute 4.2 million hectares, the broad-leaved species such as sal and teak aggregate to 20.5 million hectares, while miscellaneous trees account for 49.9 million hectares. The forests are owned by the State (95.2 per cent), by corporate bodies (2.8 per cent) and by private individuals (2.0 per cent).

The forests are unevenly distributed and the **production** is also proportionately low, being only 0.5 cu.m. per hectare per year as against the world average of 2.1 cu.m. per hectare. Forests are **located** mostly in hilly terrain or remote interior areas where communications are not properly developed. Madhya Pradesh has the maximum forest area and accounts for about 23 per cent of the country's total forest area. Other important wood-rich States are Assam, Himachal Pradesh, Kerala, Orissa, Maharashtra, Karnataka, Uttar Pradesh and Andaman and Nicobar Islands.

Classification: The forests in India can be broadly classified in the following major groups.

(*i*) Tropical forest; (*ii*) Montane Sub-tropical forest (*iii*) Montane temperate forest and (*iv*) Alpine forest.

Each of these groups has a number of types which are in turn divided into sub-types. 16 broad climatic forest groups are recognised in this country. These are:

1. Tropical Wet Evergreen Forest — 4.503 million hectares including semi-evergreen forests (Parts of Assam, West Bengal, Karnataka, Kerala and Andaman and Nicobar Islands).
2. Tropical Semi-Evergreen Forest — (Parts of Assam, West Bengal, Orissa and Andamans).
3. Tropical Moist Deciduous Forest — 23.303 million hectares (Parts of Andamans, Uttar Pradesh, Madhya Pradesh, Maharashtra, Karnataka, Orissa, Tamil Nadu and Kerala).
4. Tropical Dry Deciduous Forest — 29.154 million hectares (Almost all over India).
5. Littoral and Swamp Forests — (Deltas of big rivers).
6. Tropical Thorn Forest—5.236 million hectares (Parts of Punjab, Haryana, Rajasthan, Upper Gangetic plains, the Deccan Plateau and Lower Peninsular India).
7. Tropical Dry Evergreen Forests — 0.075 million hectares (Restricted to a small area of the East Coast in Tamil Nadu).
8. Sub-Tropical Dry Evergreen Forests — 0.173 million hectares (Siwaliks and the Western Himalayas up to about 1,000 m).
9. Sub-Tropical Broad-leaved Hill Forests — 0.287 million hectares (Lower slopes of the Himalayas in W. Bengal and Assam and other hill ranges such as Khasi Hills, Nilgiris and Mahableshwar).
10. Sub-Tropical Pine Forests — 3.740 million hectares (North-West Himalayas, between 1,000 m to 1,800 m and in Khasi, Manipur and Naga Hills).
11. Montane Wet Temperate Forests — 1.613 million hectares (Tamil Nadu and Kerala above 1,500 m and in the Eastern Himalayas, Viz., W. Bengal, Assam, Arunachal Pradesh from 1,800 m to 3,000 m).
12. Himalayan Moist Temperate Forests — 2.725 million hectares including dry Temperate Forests. (Entire length of Himalayas between the pine and sub-alpine forests in Kashmir, Himachal Pradesh, Punjab, Uttar Pradesh and Sikkim between 1,500 m to 3,300 m).
13. Himalayan Dry Temperate Forests (Inner ranges of the Himalayas where S-W monsoon is very feeble).
14. Sub-Alpine Forests
15. Moist Alpine Scrub
16. Dry Alpine Scrub

} Higher elevations over 3,000 m on the Himalayas.

The treeless zone is the habitat of the Tibetan sheep, bharal, wooly hare with occasional appearance of snow leopard.

Over 16 per cent of the total forest area is inaccessible.

Education and Research: Forest research and education are centralised in the Forest Research Institute and Colleges located at Dehra Dun. The Institute is recognised by the F.A.O. as a centre for training in forestry for South-East Asia.

The Forest Research Institute and Colleges are under the administrative control of the Ministry of Agriculture of the Government of India. Its administrative Head is designated the President. It has under its control three Regional Forest Research Centres, one each at Bangalore, Jabalpur and Coimbatore to deal with the special problems pertaining to the area. It has also set up a college at Kuescong, West Bengal from April 1974, for providing training to Forest Rangers of the Eastern Region. The college will, in due course, be developed into a full-fledged Regional Centre similar to that of Coimbatore.

The institute was reorganised into four Directorates working under the President, viz., (1) The Directorate of Forest Education with 4 forestry colleges under it, two at Dehra Dun and one at Coimbatore and one at Kuescong; (2) The Directorate of Forestry Research having eight branches — the Silviculture branch, the logging branch, the forest genetics branch, the minor forest products branch, the forest economics branch, the silvic branch, the forest soils branch, and the forest management and mensuration branch; (3) the Directorate of Biological Research having four branches — the systematic botany branch, the forest pathology branch, the entomology branch, and the wood anatomy branch; (4) the Directorate of Forest Products Research having eight branches —

the wood seasoning branch, the composite wood branch, the cellulose and paper branch, the timber mechanics branch, the timber engineering branch, the chemistry of forest products branch, the wood preservation branch and the wood working, saw milling and finishing branch.

Training Schemes: Training courses (under the aegis of the Government of India/F.A.O./United Nations Development Programme) in basic logging have been started in the Northern Zone (Dehra Dun), Central Zone (Chandrapur) and in the Southern Zone (Coimbatore). Training courses in the operation and maintenance of logging equipment, studies in planning and efficiency of logging operations and land milling and operation in cable ways are run at Dehra Dun, Chandrapur and Kulu respectively. During 1973-74, an expenditure of Rs. 0.532 million was incurred.

In the year 1973-74, 28 I.F.S. probationers and 18 other forest officers in different courses and 148 rangers passed out from the 3 colleges.

There are in all 19 schools for training foresters and 29 schools for training forest guards in the country.

Development Programmes : Greater emphasis has been laid on schemes relating to forest plantation, development of forest communications, farm forestry-cum-fuel wood plantations, survey of forest resources and improvement of logging techniques. The State Governments have also been urged to set up Forest Corporations in the Fifth Plan to attract sufficient funds from financial institutions for undertaking large-scale plantation programmes.

Pre-Investment Survey of Forest Resources : This project aims at investigating the economic availability of raw materials for forest based industrial development in selected areas of the country.

The **achievements** of some important forestry schemes during the Fourth Plan period and the targets for the Fifth Plan are indicated in the following table :

Scheme	Unit	Fourth Plan (1969-74) Achievements	Fifth Plan (1974-79) Targets
Plantations of quick growing species for production of raw material pulp & paper industry ..	'000 hects.	251	860
Economic and Commercial plantations ..	,,	289	1,610
Farm forestry-cum-fuel wood plantation ..	,,	80	400
Communications	'000 kms.	8	60

Forest Produce : The forest produce can be broadly divided in two broad groups:—

(*i*) Major forest produce — timber and firewood. The important varieties are teak (Tectona grandis), deodar (Cedrus deodar), sal (Shorea robusta), sissoo (Dalbergia sissoo), chir (Pinus roxburghii) and kail (Pinus wallichiana).

(*ii*) Minor forest produce — the commercially important items under this are bamboos, canes, gums, resins dyes, tans, lac, fibres, floss and medicinal plant material.

Government is the largest timber producing agency in the country. Sale is by auction and in standing form.

Teak is by far the most important species which occurs over an area of 8.9 million hectares. More than 50 per cent of total area under teak is in Madhya Pradesh. The next are the States of Maharashtra, Andhra Pradesh, Karnataka, Kerala and Gujarat.

Sal ranks next to teak in its utility and value. Sal forests cover an area of 11.6 million hectares and are distributed in Assam, Bihar, Madhya Pradesh, Orissa, Tripura, Uttar Pradesh and West Bengal.

Rosewood which is valued for its grain and colour, is mostly obtained from Kerala, Karnataka, Tamil Nadu, Andhra Pradesh and Maharashtra.

Cedrus deodara (Deodara) is by far the most important coniferous species highly valued as a constructional timber.

Pinus roxburghii (Chir pine) ranks as the next which is used for constructional purposes and the trees are tapped for resin. **Abies pindrow** (Fir) and **Picea smithiana** (Spruce) represent the valuable long fibre resource for pulp and paper industry.

The annual yield of timber and fuel wood is mainly derived from exploitable forest area which is 46 million hectares, i.e., about 60 per cent of total forest area in the country. During 1966 to 1972, about 8,600 kms. of forest roads were constructed at a cost of Rs. 64 million, thus improving the accessibility of the forests. Forests in the plains are mostly well connected by a net-work of roads but the road density in the hills is fairly low.

The total production of wood from the forests in the country is estimated at 22.8 million cu.m. of which 9.1 million cu.m. constitute industrial wood (1971). Fuelwood production is 13.7 million cu.m. including wood for charcoal. This represents an increase of about 15 per cent over the production figures of 1966.

There are about 3,000 saw mills in the country. Their capacities range from 10 tonnes to 200 tonnes per day. There is an increasing tendency of opening departmental saw mills in the various forest departments of the country to obtain rational utilisation of forest produce. Some of the saw mills have introduced their own seasoning kilns.

The bulk of the timber supply is used for railway sleepers, constructional requirements, furniture plywood (especially tea chests), matches, etc. Intake of wooden sleepers by the railways showed a decrease from 0·239 mill. cu. m. in 1966 to 0·196 mill. cu.m. in 1970. On the other hand, production of pulp and paper board, newsprint, plywood, fibre board and particle board has increased from 697,000 tonnes in 1966 to 1,014,000 tonnes in 1972.

Exports : Myrobalans are exported in the form of full nuts, crushed nuts and extract. The exports of nuts — crushed and full — declined sharply. In 1971-72 the exports were 6,872 tonnes, in 1972-73 the figures came down to 638 tonnes and picked up substantially in 1973-74 (upto February 1974) to 4,471 tonnes.

Exports of Myrobalan fruit extract in 1971-72 was 207 tonnes, in 1972-73 it rose to 306 tonnes. However in 1973-74 (upto February 1974) it again fell to 133 tonnes.

The average export prices for nuts decreased from Rs. 828 per tonne in 1971-72 to Rs. 716 per tonne in 1973-74. The price of fruit extract rose from Rs. 2,311 per tonne in 1971-72 to Rs. 2,691 per tonne in 1973-74.

Imports: The import of forest products have gone up from Rs. 217 million in 1966 to Rs. 439 million in

1972. The bulk of imports relate to paper and paper products including newsprint.

Timber Extractions (Andaman & Nicobar Islands): A quantity of 61,498 cubic metres of timber was extracted from the virgin forests of south, middle and north Andamans from April to October, 1973. The bulk of the timber was supplied to wood-based industries for manufacture of plywood, match splints etc. During the same period 8,558 cubic metres of logs were supplied to the local plywood consumers and 5,139 cubic metres of sawn timber were supplied to the Government Departments and the public.

Preservation of wild life: Wild Life Protection Act, 1972 which governs the wild life conservation and protection of endangered species both inside and outside forest area, has been adopted by most of the States and all the Union territories.

Trade in wild life and its products has been brought under the purview of the Act, and further restrictions have been imposed on the export trade of a number of animals, birds and their products. The export of rare and endangered species has been totally banned and a number of other products have been brought under quota system to regulate the export. Plans have also been drawn up for development of Wild Life sanctuaries in the country.

Project Tiger: The Project Tiger was launched on 1st April, 1973, at the Corbett National Park (U.P.). The Project aims at ensuring the maintenance of natural population of tigers and their prey range and other animals associated with them for ecological, scientific, aesthetic and natural values. The Project covers a total area of 13,017 sq. kms. in nine reserves of nine States. It is proposed to eliminate all the disturbing factors at least from a core area of 300 sq. kms. in each of the nine reserves. Assistance from the World Wide Life Fund is expected to be received during 1974-75 for the implementation of Project Tiger.

Wild Life Societies: The following are some of the more important societies concerned with conservation in India: (1) Bombay Natural History Society, Hornbill House, Shahid Bhagat Singh Rd., Bombay 400001; (2) Wild Life Preservation Society of India, 7, Ashley Hall, Dehra Dun, 248001; (3) World Wild Life Fund Indian National Appeal, Hornbill House, Shahid Bhagat Singh Road, Bombay 400001; (4) Peermade Wild Life Preservation Society, Stagbrook Estate, Peermade P.O., Kerala; (5) Nilgiri Wild Life Association, Ootacamund 643001; (6) Gujarat Natural History Society, 57, Pritamnagar, Ellis Bridge, Ahmedabad 380001; (7) Birdwatchers' Field Club of India, 32-A, Juhu Lane, Andheri, Bombay 400058; (8) High Range Game Association, Munnar P.O. Kerala; (9) Assam Valley Wild Life Society, Pratapgarh, TE, P.O. Sootea, Darang, Assam; (10) The Bihar Natural History Society, Patna 800001.

FISHERIES

Extent of Resources: India has a long coast line of 6,535 kms. and inland cultivable water areas of about 1·6 million hectares which offer a huge potential for fisheries development. The major sea resources comprise pelagic stocks of the sardine group, the mackerel, the tuna and other scombroids and a number of smaller but valuable items like the pomfrets, solefish and the carangids, the perches, polynemids and sciacmids.

India occupies the seventh place in the field of fisheries production in the world. Marine fisheries account for about 60 per cent of the total production in the country, the remaining 40 per cent contributed by inland fisheries. The potential yield of fisheries from inland resources has been estimated at over 10 million tonnes per year. However, the daily **per capita availbility** of fish in India has been estimated at as low a figure as 7·5 gms. as compared with a daily per capita availability of 137 grams in Japan.

A ten-fold increase in fish production is considered necessary to meet adequately the increasing demand for fish in the country.

Growth since Independence: From an estimated catch of 0·7 tonnes in 1947, it increased to 1·64 million tonnes in 1972 of which 0·97 million tonnes was marine fish. During about the same period (1947–71) the world catch rose from an estimated 18 million tonnes to 69·4 million tonnes. During 1973–74, the total fish production in India amounted to 2·32 million tonnes. Production of marine and inland fish being 1·54 and 0·78 million tonnes respectively. Production during 1974–75 is expected to be of the following order.

('000 tonnes)

	Inland	Marine	Total
Andhra Pradesh	90·00	150·00	240·00
Assam	38·00	—	38·00
Bihar	70·00	—	70·00
Gujarat	16·00	179·00	195·00
Haryana	1·20	—	1·20
Himachal Pradesh ..	0·92	—	0·92
Jammu & Kashmir ..	6·75	—	6·75
Karnataka	73·00	124·00	197·00
Kerala	21·00	510·00	531·00
Madhya Pradesh ..	9·50	—	9·50
Maharashtra	18·50	267·00	285·50
Manipur	1·50	—	1·50
Meghalaya	0·85	—	0·85
Nagaland	0·14	—	0·14
Orissa	24·00	19·00	43·00
Punjab	2·00	—	2·00
Rajasthan	9·00	—	9·00
Tamil Nadu	160·00	314·00	475·00
Tripura	4·75	—	4·75
Uttar Pradesh	25·00	—	25·00
West Bengal	248·00	12·00	260·00
Total — States..	819·61	1,576·00	2,396·11

Union Territories ('000 tonnes)

	Inland	Marine	Total
Andaman & Nicobar ..	—	1·60	1·60
Arunachal Pradesh ..	0·30	—	0·30
Chandigarh	Neg.	—	Neg.
Dadra & Nagar Haveli	Neg.	—	Neg.
Delhi	Neg.	—	Neg.
Goa, Daman & Diu ..	0·80	24·00	24·80
Lakshadweep	—	2·90	2·90
Pondicherry	0·42	16·50	16·92
Mizoram	0·40	—	0·40
Total: Union Terri. ..	1·92	45·00	46·62
Total: All-India ..	821·53	1,621·00	2,442·73

Note: Neg. = Negligible.

Development Programmes:

Marine : In the field of marine fisheries, special emphasis has been laid on the mechanisation of fishing boats, the number of these boats in March, 1974, being 9,164 as against only 13 at the commencement of the First Five Year Plan in 1951–52.

For the popularisation of deep sea fishing, about 100 large fishing vessels are likely to be available on the eve of the Fifth Plan. A subsidy upto 27·5 per cent of the value of corresponding imported vessels has been offered to encourage the production and use of indigenous vessels.

Inland Fisheries : Development of inland fisheries is particularly significant for the rural economy of States such as West Bengal, Bihar and Orissa. In the case of inland fisheries, emphasis has been laid on increased fish seed production, rearing of fry and fingerlings in nurseries and culturing them in large sweet water lakes. Spawn production and fingerlings production are expected to have reached the level of 1,888 million and 483 million respectively during 1973–74. The total nursery area now available for spawn rearing is estimated at 923 hectares.

Fifth Plan : In the Fifth Plan, a special boost will be given to the fishery sector to meet protein requirements, develop the export potential and improve the socio-economic conditions of the fishermen. It is envisaged to achieve a production target of 3·08 million tonnes of fish production by 1978–79. An outlay of Rs. 1,605·10 million is tentatively proposed for the development of fisheries in the Fifth Plan as against an estimated expenditure of Rs. 570 million in the Fourth Plan. For the Fifth Plan period 1978–79, targets of different fishery programmes are :

Items	Unit	Targets
Mechanised boats in operation	Nos.	13,300
Large fishing vessels	Nos.	300
Refrigerated/insulated Rail Vans	Nos.	53
Spawn	Million	4,257
Fry & fingerlings	Million	1,215
Nursery area	Hectares	1,780

Exports : Against an export of 38,903 tonnes in 1972–73 valued at Rs. 597·20 million, the export of marine products during 1973–74 was to be 52,279 tonnes valued at Rs. 895·1 million.

For augmenting the exports of sea foods, the Govt. of India has set up a Marine Products Export Development Authority at Mattanchery, Kerala.

Main Buyers : The main buyers of Indian marine products are United States, Japan, Australia and West European countries like France, Belgium, Italy, United Kingdom, West Germany, Netherlands and Denmark. Of all the marine products, shrimps constitute the principal item of export—nearly 90 per cent in frozen, canned and dried forms.

EDUCATION

Number of Universities rose from 47 in 1960 to 101 in 1973 with an enrolment of 3·86 million during the same period. **Number of colleges** increased from 1,542 in 1960–61 to 3,604 in 1970–71.

Number of Illiterates in 1971 was 386 million as against 388 million in 1961. However, the percentage of literacy according to 1971 census rose to 29 per cent from 24 per cent in 1961. (See also Chapter on Population)

Of every 100 children enrolled only about 40 reach Class V and only about 25 reach Class VIII. The rest drop out at some stage beginning roughly from age nine.

Free Education : The position as on 15th February, 1973 : (1) All education free in Jammu & Kashmir and Nagaland ; (2) All school education, including P.U.C. classes, free in Tamil Nadu ; (3) All education upto end of Secondary stage free in Andhra Pradesh, Kerala and Karnataka; (4) Primary education free in Maharashtra and Gujarat. Also all education free for children of parents earning less than Rs. 1,200 a year ; (5) In Rajasthan, all education is free for girls and only primary education is free for boys ; (6) In Punjab, Haryana and Madhya Pradesh primary education is free ; (7) In Uttar Pradesh education is free for girls upto class X and for boys upto Class VI ; (8) In Bihar primary education is free ; (9) In West Bengal primary education is free for girls in rural areas and free for boys in some rural and urban areas between Classes I and V, whilst in Calcutta and other urban areas it is not yet free ; (10) In Orissa primary education is feee ; (11) In Assam primary education is free for girls in Classes I to VIII and for boys in Classes I to V ; (12) In Delhi primary education is free ; (13) In all other Union Territories primary education is free.

Expenditure on Education; Fifth Plan allocations are still to be finalised. Tentative plan visualised by the Central Advisory Board of Education had shrunk from Rs. 32,000 million to Rs. 17,260 million. The share of primary education had been cut down from Rs. 10,300 million to Rs. 7,720 million. Total expenditure on education, inclusive of Plan and non-Plan, during the Fifth Plan period is expected to be about Rs. 90,000 million, next only to that on Defence.

Enrolment since Independence

Age Group	1951	1971
6 to 11	18,200,000 or 43 per cent of age group.	60,500,000 or 80 per cent of age group.
11 to 14	3,100,000 or 13 per cent of age group.	14,300,000 or 35 per cent of age group.

SUBJECTS OF STUDY

(Derived with permission from ' Directory to Subjects of Study at Indian Universities ' published in the annua **Commonwealth Universities Yearbook** by the Association of Commonwealth Universities, London and **University Grants Commission,** New Delhi.)

This directory contains a list of selected subjects which may be studied at universities in India, some in the departments or constituent colleges of universities themselves, some in colleges affiliated to universities, and others in both. The list is not exhaustive but it does cover most of the main subjects in which facilities for study or research are available. Many of the universities which provide courses for bachelor's or master's degrees in a subject also provide facilities for research in aspects of it which may lead to a doctorate.

Subjects marked† may, depending on the university, either (*a*) form a greater or lesser part of the course for a bachelor's degree, or (*b*) be studied for a master's degree, or (*c*) both.

Universities marked * in the article provide instructions upto the post-graduate level; 'm' and 'd' under the Medicine list indicate Master's Degree (including MD) and Government Diploma.

Agriculture : Bachelor's : Agra*, Allahabad*, Andhra Pradesh Agri.*, Annamalai*, Assam Agri.*, Banaras*, Bhagalpur*, Bihar*, Calcutta*, G. B. Pant Univ. of Agri. & Tech.* (Previously U.P. Agri.), Gorakhpur, Gujarat*, Himachal Pradesh*, J. L. Nehru Krishi*, Kalyani*, Kanpur*, Kerala*, Kurukshetra, Madras*, Madurai*, Mahatma Phule Krishi, Meerut*, Orissa Univ. of Agri. & Tech.*, Punjab*, Punjab Agri.*, Punjabrao Krishi*, Rajasthan, Ranchi*, Sardar Patel* Saurashtra, South Gujarat*, Tamil Nadu Agri.*, Udaipur*, Univ. of Agri. Sciences*, Visva-Bharati. **Master's:** Universities marked*. **Diploma:** Assam Agri.

Dairy husbandry, dairying/dairy science/dairy technology: Bachelor's : Allahabad (animal husbandry & dairying), Assam Agri. (animal husbandry), Bhagalpur, G. B. Pant, Univ. of Agri. & Tech., Punjab, Punjab Agri. (animal husbandry), Punjabrao (animal husbandry), Sardar Patel. **Master's:** Allahabad, Assam Agri. (animal husbandry), Meerut (animal husbandry & dairying), Punjab, Sardar Patel, Udaipur. **Diploma:** Indian Inst. of Tech., Kharagpur.

Horticulture : Bachelor's : Bhagalpur, Haryana Agri. **Master's :** Allahabad, Assam Agri., Banaras, Bhagalpur, Haryana Agri., J. L. Nehru Krishi, Kalyani, Madras, Meerut, Nagpur, Udaipur. **Diploma:** Madras.

Ancient Indian History, Culture and Archaeology/Indology :† Agra, Allahabad, Andhra, Banaras, Baroda, Bombay, Calcutta, Gorakhpur, Gujarat, Jabalpur, Karnatak, Kurukshetra, Lucknow, Madras, Marathwada, Mysore, Nagpur, Osmania, Punjab, Patna, Poona, Rajasthan, Ravi Shankar, Saugar, Shivaji, Vikram, Visva-Bharati. **Diploma/Certificate:** Allahabad (archaeology), Banaras, Mysore.

Anthropology :† Allahabad, Andhra, Bombay, Burdwan, Calcutta, Delhi, Dibrugarh, Gauhati, Gujarat Vidyapith (social anthropology), Karnatak, Lucknow, Madras, Punjab, Poona, Punjabi (social anthropology), Ranchi, Ravi Shankar, Saugar, Srivenkateswara, Utkal. **Diploma/Certificate:** Calcutta (applied anthropology), Madras, Ravi Shankar (applied anthropology and tribal welfare).

Architecture : Bachelor's: Bangalore, Baroda, Bhopal, Bombay, Calcutta, Delhi, Indian Inst. of Tech., Kharagpur, Jadavpur, Kerala, Madras, Nagpur, Osmania, Punjab, Roorkee. **Master's:** Banaras (art & architecture), Baroda (town & country planning), Calcutta, Roorkee. **Diploma:** Banaras (art & architecture), Gujarat.

Assamese:† Burdwan, Dibrugarh, Gauhati.

Astronomy:† Lucknow, Osmania.

Audiology and speech therapy: Bachelor's: Bombay.

Bacteriology:† Andhra, Bihar, Bombay, Delhi, Gujarat, Kerala, Madras, Mysore, Osmania (MD), Poona, Rajasthan. **Diploma:** Rajasthan.

Bengali:† Allahabad, Banaras, Burdwan, Calcutta, Delhi, Dibrugarh, Gauhati, Gujarat, Jadavpur, Lucknow, North Bengal, Punjab, Patna, Punjabi, Rabindra Bharati, Ranchi, Utkal, Visva-Bharati, **Diploma/Certificate :** Allahabad, Banaras, Delhi, Lucknow, Visva-Bharati.

Biochemistry:† Aligarh, Allahabad, Andhra, Banaras, Baroda, Bombay, Calcutta, Delhi, Dibrugarh (MD), J. L. Nehru Krishi, Kerala, Lucknow, Madras, Mysore, Nagpur, Osmania, Punjab, Punjab Agri. Post-graduate Research Inst. in Medicine, Chandigarh, Rajasthan, Sambalpur (MD). **Diploma :** Indian Inst. of Science, Bangalore.

Biophysics:† Banaras (MD), Bombay, Madras, Punjab, Punjabi, Post-graduate Research Inst. in Medicine, Chandigarh.

Botany:† Agra, Aligarh, Allahabad, Andhra, Annamalai, A. P. Singh, Banaras, Bangalore, Baroda, Berhampur, Bhagalpur, Bhopal, Bihar, Birla Inst. of Tech. & Science, Pilani, Bombay, Burdwan, Calcutta, Delhi, Dibrugarh, Gauhati, G. B. Pant Univ. of Agri. & Tech., Gorakhpur, Gujarat, Haryana Agri., Indore, Jabalpur, Jammu, Jiwaji, Jodhpur, Kalyani, Kanpur, Karnatak, Kerala, Kurukshetra, Lucknow, Madras, Madurai, Magadh, Marathwada, Meerut, Mysore, Nagpur, North Bengal, Osmania, Punjab, Patna, Poona, Punjabi, Rajasthan, Ranchi, Ravi Shankar, Sambalpur, Sardar Patel, Saugar, Saurashtra, Shivaji, South Gujarat, Srivenkateswara, Udaipur, Utkal, Vikram, Visva-Bharati.

Buddhist Studies : Master's : Delhi.

Chemistry:† Guru Nanak, Himachal Pradesh : I. I. T. (Bombay, Delhi, Kanpur, Kharagpur, Madras), Jadavpur, Punjab Agri., Roorkee and all universities listed above under 'Botany'.

Commerce and Business Management : Bachelor's and **Master's** in commerce : Agra, Aligarh, Allahabad, Andhra, Annamalai, A. P. Singh, Banaras, Bangalore, Baroda, Berhampur, Bhagalpur, Bhopal, Bihar, Bombay, Burdwan, Calcutta, Calicut (Master's only), Cochin (Master's only), Delhi, Dibrugarh, Gauhati, Gorakhpur, Gujarat, Indore, Jabalpur, Jammu, Jiwaji, Jodhpur, Kanpur, Karnatak, Kashmir, Kerala, Kurukshetra, Lucknow, Madras, Madurai (bachelor's), Magadh, Marathwada, Meerut, Mysore, Nagpur, North Bengal, Osmania, Punjab, Patna, Poona, Punjabi (Bachelor's), Rajasthan, Ranchi (Bachelor's), Ravi Shankar, Sambalpur, Sardar Patel, Saugar, Saurashtra, Shivaji, South Gujarat, Srivenkateswara (Bachelor's), Udaipur, Utkal, Vikram. **Bachelor's and Master's in business management :** Banaras, Dibrugarh (bachelor's), Osmania. **Bachelor's in business administration :** Birla Inst. of Tech. & Science, Pilani, Madurai, Rajasthan. **Master's in business administration :** Allahabad, Andhra, Birla Inst. of Tech. & Science, Pilani, Cochin, Delhi, Himachal Pradesh, Jodhpur, Lucknow, Osmania, Punjab, Punjab Agri. (agri. business administration), Poona, Punjabi, Rajasthan, Shivaji, Udaipur. **Master's in industrial management:** Cochin, I.I.T. Madras. **Master of management science studies :** Bombay, Madras. **Diploma/Certificate : agricultural marketing** — Shivaji ; **accounting & taxes** — Shivaji ; **Banking/bank administration** — Aligarh, Baroda, Gujarat ; **banking & finance** — Rajasthan ; **business administration/management**— Aligarh, Allahabad, Bombay, Calcutta, Delhi, Indore, Jammu, Kerala, Madras, Nagpur, Poona, Shivaji, South Gujarat ; **financial & industrial relations** — Shivaji ; **industrial administration/management** — Allahabad, Bombay, Delhi, Indian Inst. of Science, Bangalore, Kerala, Madras, South Gujarat ; **management studies :** Madurai ; **rural services**†, Nagpur. **Master's in rural studies :** South Gujarat. **Diploma in Steno-typing :** Aligarh.

Computer Science/Technology : Bachelor's : I. I. T. Kanpur, **Master's :** Bombay. **Diploma :** Bombay (c. management), I.I. T. Kharagpur, Jadavpur, **Certificate :** South Gujarat (c. programming).

Co-operation : Master's : Bhagalpur (rural economics & c.). **Diploma :** Andhra (c. & rural studies), Baroda, Gujarat, Marathwada (co-operative management), Rajasthan, Shivaji.

Criminology and Forensic Science : (See also under 'Medicine') Karnatak, Mysore, Saugar. **Diploma/Certificate :** Delhi (forensic sciences), Lucknow, Madras, Rajasthan, Saugar, Shivaji.

Dance : See 'Music'.

Dentistry: Bachelor's: Bangalore*, Bombay*, Calcutta, Gujarat*, Indore, Kerala*, Lucknow*, Madras*, Mysore*, Nagpur, Osmania, Punjab*, Patna, Punjabi, **Master's :** universities marked*.

Dogri : Certificate : Jammu.

Drama : Bachelor's and Master's : Rabindra Bharati. **Diploma :** Gujarat, Punjabi (dramatic arts), Rabindra Bharati.

Economics† **:** Agra, Aligarh, Allahabad, Andhra, Annamalai, A. P. Singh, Banaras, Bangalore, Baroda, Berhampur, Bhagalpur, Bhopal, Bihar, Birla, Bombay, Burdwan, Calcutta, Delhi, Dibrugarh, Gauhati, Gorakhpur, Gujarat, Haryana Agri. (agri. economics), Himachal Pradesh (agri. economics), Indore, Jabalpur, Jadavpur, Jamia Millia Islamia, Jammu, Jiwaji, Jodhpur, Kalyani, Kanpur, Karnatak, Kashi Vidyapith, Kerala, Kurukshetra, Lucknow, Madras, Madurai, Marathwada, Meerut, Mysore, Nagpur, North Bengal, Osmania, Punjab, Punjab Agri., Patna, Poona, Punjabi, Rajasthan, Ranchi, Ravi Shankar, Sambalpur, Sardar Patel, Saugar, Saurashtra, Shivaji, S.N.D.T. Women's, South Gujarat, Srivenkateswara, Udaipur, Utkal, Varansaseya Sanskrit Vish., Vikram, Visva-Bharati.

Economics Applied : Master's : Andhra, Utkal.

Education : B.Ed./B.T. : Agra*, Aligarh*, Andhra*, Annamalai*, A. P. Singh, Banaras*, Bangalore*, Baroda*, Berhampur, Bhagalpur, Bhopal, Bihar, Bombay*, Burdwan, Calcutta*, Delhi*, Dibrugarh, Gauhati* Gorakhpur*, Gujarat*, Gujarat Vidyapith*, Himachal Pradesh*, Indore*, Jabalpur*, Jammu, Jiwaji*, Jodhpur, Kalyani*, Kanpur*, Karnatak*, Karala*, Kurukshetra*, Lucknow*, Madras*, Madurai*, Marathwada*, Meerut*, Mysore*, Nagpur*, North Bengal, Osmania*, Punjab*, Patna*, Poona*, Punjabi*, Rajasthan*, Ranchi*, Ravi Shankar*, Sambalpur, Sardar Patel*, Saugar*, Saurashtra*, Shivaji*, S.N.D.T. Women's*, South Gujarat*, Srivenkateswara*, Udaipur*, Utkal*, Varanaseya Sanskrit Vish., Vikram, Visva-Bharati*. **Master's:** Allahabad and universities marked*. **Diploma:** Baroda, Bihar, Bombay, Gauhati, Gujarat, Jabalpur, Kalyani, Karnatak, Lucknow, Nagpur, Patna, Poona, Rajasthan, Sardar Patel, Shivaji, **Diploma in adult education :** Rajasthan. **Diploma/Certificate/ in educational administration :** Baroda, Nagpur, Sardar Patel (School administration). **Diploma in Educational & Vocational Guidance :** Nagpur. **Diploma in educational measurement & evaluation :** Nagpur. **Diploma/Certificate in guidance & counselling :** Baroda, Punjab, Sardar Patel. **Master's in Education & Community Psychology :** Punjabi.

Engineering Technology : Chemical : Bachelor's : Bombay*, Burdwan, Gujarat, I. I. T. (Bombay*, Delhi*, Madras*), Jadavpur*, Madras*, Nagpur*, Osmania*, Punjab*, Roorkee, Sambalpur* (see also oil technology). **Master's :** Indian Inst. of Science, Ranchi and Universities marked.*

Engineering, Civil, Electrical or Mechanical : (See also 'Technology' below). **Bachelor's:** Agra (electrical/ mechanical), Aligarh*, Allahabad*, Andhra*, Annamalai*, A.P. Singh, Banaras*, Bangalore*, Baroda*, Bhagalpur. Bhopal (electrical, civil, mechanical), Bihar Birla*, Bombay*, Burdwan*, Calcutta*, Delhi*, Dibrugarh, Gauhati, G.P. Pant Univ. of Agri. & Tech., Gorakhpur, Gujarat*, I. I. T. (Bombay*, Delhi*, Kanpur*, Kharagpur*, Madras*), Indian Institute of Science (electrical communication electrical & mechanical), Indore*, Jabalpur*, Jadavpur*, Jiwaji. Jodhpur*, Karnatak, Kerala*, Kurukshetra*, Madras*, Madurai, Marathwada*, Mysore*, Nagpur, North Bengal*, Osmania*, Punjab, Patna, Poona*, Punjabi, Rajasthan*, Ranchi*, Ravi Shankar, Roorkee*, Sambalpur*, Sardar Patel*, Saurashtra, Shivaji*, South Gujarat, Srivenkateswara*, Vikram. **Master's:** Indian Institute of Science and universities marked*. **Diploma:** Aligarh (Civil, electrical, mechanical).

Engineering : Some Other Branches : (See also 'Technology' below). **Aeronautical Bachelor's :** I. I. T. (Kanpur, Kharagpur, Madras), Punjab, **Master's :** I. I. T. Bombay, Kanpur, Madras, Indian Institute of Science. **Agricultural Bachelor's :** Allahabad, Bhagalpur (with soil conservation), Haryana Agri., G. B. Pant Univ. of Agri. & Tech.*, I. I. T. Kharagpur, J. L. Nehru Krishi Vish., Punjab Agri. (also Master's), Punjabrao Krishi, Udaipur. **Master's** (Agri. Engg.) — Allahabad, Punjab Agri. **Diploma :** University of Agri. Sciences, Hebbal. **Electronics & Communication:** Roorkee (B.E., M.E.), Kurukshetra (B.Sc.). **Architectural Bachelor's :** Roorkee, **Automobile engineering, Master's :** Bombay. **Civil & Hydraulic Engg., Master's :** Indian Institute of Science. **High Voltage, Master's :** Indian Inst. of Science. **Highway & Marine structures — Bachelor's :** Andhra. **Master's :** Mysore. **Material Science, Bachelor's :** I. I. T. Kanpur. **Internal combustion, Master's :** Indian Inst. of Science. **Metallurgy, Bachelor's** and **Master's :** Indian Inst. of Science, Roorkee. **Mining, Bachelor's:** Banaras, Calcutta, I. I. T. Kharagpur, Jodhpur, Madras, Osmania, Ravi Shankar. **Master's:** Banaras, I. I. T. Kharagpur, Jodhpur. **Public Health, Master's :** Bangalore, Calcutta, I. I. T. Kharagpur, Nagpur, Roorkee. **Radar Master's :** I. I. T. Delhi. **Space engineering & rocketry-Master's :** Ranchi. **Telecommunication Bachelor's :** Andhra, Jadavpur, Karnatak, Osmania, Poona. **Master's:** Jadavpur, Poona. **Textile, Master's :** Baroda.

English† **:** Rabindra Bharati and all universities listed above under 'Economics'.

English as a Foreign Language : Diploma : Jiwaji, Calicut, Madurai (teaching of English), Shivaji (teaching English as a foreign language).

Fine Arts : (See also 'Painting'). **Bachelor's :** Banaras, Baroda, Kerala, Nagpur, Punjab, S.N.D.T , Visva-Bharati (History of Art). **Master's :** Baroda, Madras, Punjab. **Diploma/Certificate :** Allahabad (applied arts & crafts for women), Banaras, Gujarat, Rabindra Bharati, Visva-Bharati. **Speech** — Punjabi.

Folklore Studies : Diploma : Rajasthan.

Foreign Languages : Diploma/Certificate (unless otherwise indicated): **Arabic** † **:** Agra, Aligarh, Allahabad, Banaras, Bhopal, Bihar, Bombay (also diploma and certificate), Burdwan, Calcutta, Delhi, Gauhati, Gorakhpur, Gujarat, Jamia Millia, Jammu (certificate), Kerala, Lucknow, Madras, Nagpur, Osmania, Punjab, Patna, Poona, Rajasthan, Shivaji, Srivenkateswara, Utkal, Visva-Bharati. **Cambodian :** Banaras. **Chinese :** Allahabad, Banaras, Calcutta, Delhi, Gorakhpur, Lucknow, Punjab, Punjabi, Saugar, Varanaseya Sans. Vish., Visva-Bharati. **French :** Agra, Aligarh, Allahabad, Annamalai, Banaras, Bangalore, Baroda, Bombay, Burdwan (also bachelor's), Calcutta, Delhi, Gauhati, Jadavpur, Jodhpur, Karnatak, Kurukshetra, Lucknow, Madras, Madurai, Mysore, Nagpur, Osmania, Punjab, Poona, Punjabi, Rajasthan, Udaipur, Utkal, Varanaseya Sans. Vish., Visva-Bharati. **Master's :** Agra, Annamalai, Bombay, Calcutta, Karnatak, Madras, Madurai, Poona. **German :** Jadavpur (also bachelor's), Kerala, Marathwada, Sardar Patel, South Gujarat, Vikram and Universities named under 'French' above except Annamalai, Jodhpur, Kurukshetra. **Master's :** Agra, Banaras, Bombay, Calcutta, Karnatak, Poona. **Greek † :** Agra, Allahabad, Bombay, Burdwan, Calcutta. **Hebrew † :** Agra, Allahabad, Bombay, Burdwan, Calcutta, Madras, Punjab. **Italian** Calcutta, Delhi. Master's : Agra. **Japanese :** Banaras, Visva-Bharati. **Latin†.** Agra, Allahabad, Bihar, Bombay, Burdwan, Calcutta, Gauhati, Madras, Nagpur, Punjab, Poona, Shivaji, Utkal. **Middle Eastern Languages :** Mysore. **Mongolian :** Banaras. **Persian† :** Agra, Aligarh, Allahabad, Banaras, Baroda, Bihar, Bombay. (also certificate), Burdwan, Calcutta, Delhi, Gauhati, Gorakhpur, Gujarat, Jabalpur, Jamia Millia, Jammu (certificate), Karnatak, Lucknow, Madras, Mysore, Nagpur, Osmania, Punjab, Patna, Poona, Punjabi, Rajasthan, Ravi-Shankar, Saugar, Saurashtra, Shivaji, Srivenkateswara, Utkal, Visva-Bharati. **Polish :** Delhi, **Portuguese :** Bombay (bachelor's and Master's). **Russian :** Agra, Aligarh, Allahabad, Andhra, Banaras, Baroda, Bombay, Calcutta, Delhi, Gauhati, Indore, Jadavpur, Karnatak, Kerala, Lucknow, Madras, Madurai, Mysore, Nagpur, Osmania, Punjab, Poona, Rajasthan, Shivaji, Utkal, Varanaseya Sanskrit Vish., Vikram. **Serbo-Croatian :** Delhi. **Spanish** Delhi, Utkal. **Swahili** : Delhi. **Syriac†:** Burdwan, Calcutta, Madras. **Tibetan :** Banaras, Calcutta, Gorakhpur, Lucknow, Punjab, Punjabi, Saugar, Varanaseya Sanskrit Vish., Visva-Bharati. **Thai :** Banaras. **Turkish :** Aligarh.

Geography† : Agra, Aligarh, Allahabad, A.P. Singh, Banaras, Baroda, Bhagalpur, Bombay, Burdwan, Calcutta, Delhi (Human Geography also), Dibrugarh, Gauhati, Gorakhpur, Gujarat, Indore, Jabalpur, Jamia Millia, Jiwaji, Jodhpur, Kanpur, Karnatak, Kurukshetra, Madras, Mysore, Nagpur, North Bengal, Osmania, Punjab, Patna, Poona, Punjabi, Rajasthan, Ranchi, Ravi Shankar, Sardar Patel, Saugar, Saurashtra, Shivaji, S. N. D. T., Udaipur, Utkal, Vikram, Visva-Bharati. **Cartography— Diploma :** Nagpur, Osmania. (Geographical, Punjab).

Geology† : Agra, Aligarh, Andhra, Annamalai, A. P. Singh, Banaras, Bangalore, Baroda, Bombay, Burdwan, Calcutta, Delhi, Dibrugarh, Gauhati, Gujarat, I. I. T (Bombay, Kharagpur,) Jabalpur, Jadavpur, Jammu, Karnatak, Kerala, Lucknow, Madras, Meerut, Mysore, Nagpur, Osmania, Punjab, Patna, Poona, Rajasthan, Ranchi, Ravi Shankar, Roorkee, Saugar, Shivaji, Srivenkateswara, Udaipur, Utkal, Vikram.

Geophysics† : (See also 'Technology' below). Andhra, Banaras, Kharagpur (also diploma), Osmania, Roorkee.

Gujarati†: Allahabad, Baroda, Bombay, Delhi, Gujarat, Gujarat Vidyapith, Sardar Patel, Saurashtra, S.N.D.T., South Gujarat, **Diploma/Certificate :** Agra, Allahabad, Delhi.

Hindi†: Cochin, Calicut, Gujarat Vidyapith, Guru Nanak and All Universities listed above under 'Economics' except Berhampur, Dibrugarh, Jadavpur, Sambalpur.

History†: Rabindra Bharati and All Universities listed above under 'Economics' except Haryana Agri., Punjab Agri.

Home Arts, Home Economics, Home Science : Bachelor's : Agra, Allahabad, Andhra,* Bangalore, Baroda*, Bhopal*, Bombay, Delhi*, G. B. Pant University of Agri., & Tech., Gujarat*, Indore, Jabalpur*, Madras*, Madurai, Mysore*, Nagpur*, Punjab*. Punjab Agri.*, Saugar, Sardar Patel, S.N.D.T. *, Udaipur. **Master's :** Srivenkateswara and Universities marked*. **Diploma :** Calcutta, G. B. Pant University of Agri. & Tech.

Indian Philosophy and Religion† : Banaras, Kurukshetra, Madras, Visva-Bharati. Diploma/Certificate : Allahabad, Banaras (Indian Philosophy & Culture).

Islamic Studies/Arab Culture & Civilisation† : Aligarh, Bombay, Calcutta, Gujarat, Lucknow, Osmania.

Journalism: Bachelor's : Mysore, Nagpur, Osmania, Punjab. **Master's :** Calcutta, Mysore. **Diploma/Certificate :** Calcutta, Gauhati, Gujarat, Jabalpur, Madras, Punjab, Poona, Ravi Shankar, Shivaji.

Kannada† : Bangalore, Bombay, Karnatak, Madras, Mysore, Osmania, Poona, Shivaji, **Diploma/Certificate :** Annamalai, Bangalore, Karnatak, Madras.

Kashmiri : Certificate : Jammu.

Labour/Social Welfare : Degree/Diploma : Berhampur, Bhagalpur, Bombay, Calcutta, Gujarat, Punjab (industrial relations & labour welfare), Patna, Rajasthan, Ravi Shankar (industrial sociology, labour welfare & labour administration), Udaipur (labour law, labour welfare & personnel management), Utkal (social & labour welfare).

Law : Bachelor's: Agra*, Aligarh*, Allahabad*, Andhra*, A. P. Singh*, Banaras*, Bangalore*, Baroda*, Berhampur, Bhagalpur, Bhopal, Bihar*, Bombay*, Calcutta*, Delhi*, Dibrugarh*, Gauhati*, Gorakhpur*, Gujarat*, Himachal Pradesh*, Indore*, Jabalpur*, Jammu, Jiwaji *, Jodhpur*, Kanpur, Karnatak*, Kerala*, Kurukshetra, Lucknow*. Madras*, Magadh, Marathwada*, Meerut*, Mysore*, Nagpur*, Osmania*, Punjab*, Patna*, Poona*, Punjabi, Rajasthan*, Ranchi, Ravi Shankar, Sambalpur*, Sardar Patel, Saugar*, Saurashtra*, Shivaji, South Gujarat*, Srivenkateswara, Udaipur*, Utkal*, Vikram*. **Master's:** universities marked* and Cochin. **Diploma:** Gorakhpur, Jodhpur (labour law), Gujarat (labour law & practice; and also taxation law & practice), Rajasthan (legislative res. & drafting; also taxation laws & practice), Shivaji (income tax, sales tax, labour laws, insurance & banking law, cooperation law, mercantile law), Udaipur (labour law, labour welfare & personnel management).

Library Science : Bachelor's : Aligarh, Andhra, A.P. Singh, Banaras, Baroda, Bombay, Burdwan, Delhi Gauhati, Gujarat, Jadavpur, Jiwaji, Karnatak, Kerala, Kurukshetra, Lucknow, Madras, Marathwada, Mysore, Nagpur, Osmania, Punjab, Poona, Punjabi, Rajasthan, Saugar, Shivaji, S.N.D.T., Vikram, **Master's:** Aligarh, Banaras, Bombay, Delhi, Karnatak, Madras, Vikram, **Diploma/Certificate :** Burdwan, Calcutta, Madras, Madurai, Shivaji, S.N.D.T., Srivenkateswara, Varanaseya Sans. Vish.

Linguistics†: Agra, Aligarh, Annamalai, Baroda, Bombay, Burdwan, Calcutta, Delhi, Gujarat, Gujarat Vidyapith, Jabalpur, Karnatak, Kerala, Kurukshetra, Lucknow, Mysore, Osmania, Poona, Ravi Shankar, Saugar, Shivaji, Visva-Bharati. **Diploma/Certificate:** Aligarh, Annamalai, Baroda (applied linguistics), Delhi, Karnatak, Kerala, Madurai, Osmania, Punjabi, Ravi Shankar (Phonetics).

Maithili† : Bihar, Patna.

Malayalam†: Calicut, Delhi, Kerala, Madras, **Diploma/Certificate:** Aligarh, Annamalai, Madras.

Marathi† : Agra, Allahabad, Baroda, Bombay, Gujarat, Indore, Jabalpur, Jiwaji, Karnatak, Lucknow, Marathwada, Nagpur, Osmania, Poona, Saugar, S.N.D.T., Vikram. **Diploma/Certificate:** Agra, Allahabad, Banaras, Delhi, Lucknow.

Marine Biology and Fisheries†: Calicut & University of Agri. Sciences (Bangalore) (Fisheries science), Annamalai, Cochin (oceanography also, only master's)

Kerala **Diploma:** Shivaji (Marine biology), University of Agri. Sciences, Bangalore (fish processing technology).

Mathematics†: Guru Nanak, Haryana Agri., Himachal Pradesh, I. I. T. (Bombay, Delhi, Kanpur, Kharagpur, Madras,) Jadavpur, Jamia Millia, Jammu, Punjab Agri., Roorkee and all universities listed above under Botany.

Mathematics applied†: (see also 'Computer Science, above) **Master's** Andhra, Calcutta, Indore, Jabalpur, Roorkee.

Medicine : MBBS, MD and MS : Agra, Aligarh, Allahabad, Andhra, A. P. Singh, Banaras, Bangalore, Baroda, Bhagalpur (only MBBS), Bihar, Bombay, Calcutta, Delhi, Dibrugarh, Gauhati*, Gujarat, Indore, Jabalpur, Jiwaji, Kanpur, Karnatak, Kerala, Lucknow, Madras, Madurai, Marathwada, Meerut*, Mysore, Nagpur, North Bengal*, Osmania, Punjab, Patna, Poona, Punjabi, Rajasthan, Ranchi*, Ravi Shankar*, Sambalpur, Saurashtra, Shivaji, South Gujarat*, Srivenkateswara, Utkal. **Anaesthesiology/Anaesthetics :** Agra d, Aligarh d, Allahabad d, Andhra d, Banaras d m, Bangalore d, Baroda d m, Bombay m, Calcutta d, Delhi d m, Dibrugarh d m, Gujarat d m, Kanpur d, Karnatak d m, Kerala d, Lucknow d, Madras d m, Madurai d, Marathwada d, Nagpur d, Osmania d, Punjab d m, Patna d, Poona d m, Post-graduate Research Inst. in Medicine m, Punjabi d, Rajasthan d m, Sambalpur d, Shivaji d, Utkal d. **Anatomy :** Agra m, Andhra m, Banaras m, Baroda m, Bombay m, Calcutta m, Delhi m, Dibrugarh m, Gujarat m, Indore m, Karnatak m, Kerala m, Madras m, Marathwada m, Mysore m, Osmania m, Punjab m, Postgraduate Research Inst. in Medicine m, Rajasthan m, Sambalpur m, Shivaji m, Srivenkateswara m. **Aviation Medicine :** Bangalore d. **Basic Medical Sciences :** Calcutta d. **Cardiology :** Bombay m, Calcutta d, Madras m, P. G. Research Inst. in Medicine m. **Cardiothoracic Surgery :** P. G. Research Inst. in Medicine M.Ch. **Clinical Pathology :** Aligarh d. **Child Health/Paediatrics :** Agra d, Aligarh d, Allahabad d, Andhra d m, Banaras d m, Bangalore d, Baroda d m, Bombay m, Calcutta d, Delhi d m, Dibrugarh d m, Gujarat d m, Indore d m, Jiwaji d, Kanpur d, Karnatak d, Kerala d m, Lucknow d, Madras d m, Madurai d m, (M.Ch), Marathwada d m, Nagpur d, Osmania d m, Punjab d, Patna d, Poona d m, Punjabi d, Rajasthan d m, Sambalpur d, Shivaji d m, Srivenkateswara d, Utkal d. **Dermatology:** Andhra d m, Bombay m, Calcutta d, Delhi d, Gujarat m, Madras d m, Punjab d. **Dietetics/Nutrition :** Baroda d, Calcutta d, Madras d, Osmania m, Punjab d. **Endocrinology :** P. G. Research Inst in Medicine m. **E.N.T.** — P. G. Research Inst. in Medicine m, **Forensic Medicine Science :** Bombay d, Mysore d m, Osmania d m, Sambalpur m. **General Medicine :** P. G. Research Inst. in Medicine m. **Gastro-Entrology :** P. G. Research Inst. in Medicine m. **Genito-Urinary Surgery :** P. G. Research Inst. in Medicine m. **Gynaecology/Obstetrics :** Agra d m, Aligarh d, Allahabad d, Andhra d m, Banaras m, Bangalore d, Baroda d m, Bihar d, Bombay m, Calcutta d m, Delhi d m, Dibrugarh d m, Gujarat d m, Indore m, Jiwaji d, Kanpur d, Karnatak d m, Kerala d m, Lucknow d, Madras d m, Madurai d, Marathwada m, Nagpur d m, Osmania d m, Punjab d m, Patna d, Poona d m, Postgraduate Research Inst. in Medicine m, Punjabi d m, Rajasthan Sambalpur m, Shivaji d m, Srivenkateswara d, Utkal d ; **Hygiene :** Bombay (doctorate). **Industrial Health :** Calcutta d, Gujarat d, **Maternity & Child-Welfare :** Calcutta d. **Medical Laboratory Technology :** Bombay d. **Medical Pathology & Bacteriology :** Andhra m, Punjab d, Rajasthan m. **Medical Radiodiagnosis/Radiotherapy :** Banaras d, Bombay d, Calcutta d, Delhi d, Poona d, **Medical Radiological Diagnosis :** Nagpur d, Rajasthan d, **Medical Radiological Therapy :** Rajasthan d. **Medical Radiology :** Aligarh d, Baroda d, Karnatak d, Madurai d, Punjab d, Patna d. **Medical Radiology & Electrology :** Agra d, Allahabad d, Baroda d, Bombay d, Gujarat d, Jiwaji d, Kanpur d, Kerala d, Lucknow d, Osmania d; Poona d., **Nephrology :** Madras m, P. G. Research Inst. in Medicine m. **Neurology :** Bombay m, Madras m. **Neurosurgery:** Bangalore m, Bombay m, Madras m, P. G. Research Inst. in Medicine m, **Ophthalmology/Ophthalmic Medicine & Surgery :** Agra d m, Aligarh d, Allahabad d, Andhra d m, Banaras d m, Bangalore d, Baroda d, Bombay m, Calcutta m, Delhi d m, Dibrugarh d m, Gujarat d m, Indore d m, Jiwaji d, Kanpur d, Karnatak d, Kerala d m, Lucknow d, Madras d m, Madurai d, Marathwada d m, Mysore d, Nagpur d, Osmania d m, Punjab d m, Patna d, Poona d m, P. G. Research Inst. in Medicine m, Punjabi d m, Rajasthan d m, Sambalpur m, Saurashtra d, Shivaji d m, Srivenkateswara d, Utkal d m, **Orthopaedic Surgery :** Agra d, Aligarh d, Allahabad d, Andhra m, Banaras d m, Baroda m, Bombay m, Delhi m, Gujarat m, Kanpur d, Karnatak d m, Kerala d m, Lucknow d, Madras d m, Madurai d, Poona d m, P. G. Research Inst. in Medicine m, Rajasthan d m, Sambalpur d, Shivaji d m, Utkal d, **Otorhinolaryngology/Laryngology & Otology :** Aligarh d, Allahabad d, Andhra d m, Banaras d m, Baroda d m, Bombay m, Calcutta d, Delhi d m, Dibrugarh d m, Gujarat d m, Indore m, Kanpur d, Karnatak dm, Kerala d, Lucknow d, Madras d m, Madurai d, Osmania d, Punjab d, Patna d, Poona m, Rajasthan d m, Sambalpur m, Shivaji d m, Srivenkateswara d, Utkal d. **Pathology :** Agra m, Andhra m, Banaras m, Baroda m, Bombay m, Delhi m, Dibrugarh d m, Gujarat m, Indore m, Karnatak m, Kerala m, Madras m, Marathwada m, Mysore m, Osmania m, Punjab m, Poona m, P. G. Research Inst. in Medicine m, Punjabi m, Rajasthan m, Sambalpur m, Shivaji m, **Pathology Clinical :** Agra d, Allahabad d, Andhra d, Banaras d, Bangalore d, Baroda d, Bihar d, Indore d, Kanpur d, Karnatak d, Kerala d, Lucknow d, Madras d, Osmania d, Patna d, Poona d, Rajasthan d, Shivaji d, Srivenkateswara d, Utkal d. **Pharmacology :** Agra m, Andhra m, Banaras m, Baroda m, Bombay m, Delhi m, Dibrugarh m, Gujarat m, Indore m, Karnatak m, Kerala m, Madras m, Marathwada m, Mysore m, Osmania m, Punjab m, Poona m, P. G. Research Inst. in Medicine m, Punjabi m, Rajasthan m, Sambalpur m, **Physiology :** Agra m, Andhra m, Banaras m, Baroda m, Bombay m, Calcutta m, Delhi m, Dibrugarh m, Gujarat m, Indore m, Karnatak m, Kerala m, Madras m, Marathwada m, Mysore m, Osmania m, Punjab m, Punjabi m, Rajasthan m, Sambalpur m, Shivaji m, Srivenkateswara m. **Plastic Surgery :** Bombay m, Madras m, Nagpur m, P. G. Research Inst. in Medicine m. **Preventive & Social Medicine :** Banaras m, Baroda m, Bombay m, Gujarat m, Indore m, Marathwada m, Poona m, Rajasthan m, Sambalpur m, Shivaji m. **Psychiatry :** P. G. Research Inst. in Medicine m. **Psychiatric Social Work :** Bangalore m. **Psychological Medicine :** Bangalore d m, Bombay d m, Calcutta d, Gujarat d, Karnatak d, Mysore d, Rajasthan d. ; **Psychology Clinical :** Banaras d, Kerala d. ; **Public Health :** Andhra d, Bombay d, Calcutta d, Gujarat d, Kerala d, Lucknow d, Marathwada d, Osmania (bachelor's), Patna d, Poona d, Rajasthan d, Shivaji d. **Radiation Medicine:** Bombay d, Delhi d. **Radiodiagnosis :** Gujarat m, Madras d m, P. G. Research Inst. in Medicine m, Sambalpur d, Utkal d. **Radiology/Radiological Medicine :** Agra m, Baroda m, Bombay m, Dibrugarh m, Gujarat m, Jiwaji m, d, Madras d, Punjab m, Poona m, Rajasthan m. **Radiotherapy :** Gujarat m, Karnatak d, Madras d m, P. G. Research Inst. in Medicine m, Utkal d. **Surgery :** P. G. Research Inst. in Medicine m. **Tubercular/Tuberculosis/Tuberculous**

Diseases : Agra d, Andhra d, Baroda d, Bombay m, Calcutta d, Delhi d, Gujarat m, Indore d, Karnatak d, Lucknow d, Madras d, Nagpur d, Osmania d, Patna d, Poona m, Rajasthan d, Sambalpur d, Utkal d. **Venereology/Venereal Diseases :** Agra d, Andhra d, Calcutta d, Madras d m, Osmania d, Sambalpur d. **Venereology & Dermatology :** Baroda d, Bombay d, Gujarat d, Karnatak d, Poona d, Rajasthan d, Utkal d.

Medicine Ayurvedic/Indian : Bachelor's : Andhra, Bangalore, Gujarat, Indore, Jabalpur, Jammu, Jiwaji, Karnatak, Kerala, Madras, Madurai, Marathwada, Mysore, Nagpur, Osmania, Poona, Rajasthan, Ravi Shankar, Saugar. **Dyam ;** Banaras.

Medicine Unani : Bachelor's : Aligarh, Osmania.

Metallurgy/Metallurgical Engineering : Bachelor's : Banaras*, Baroda, Burdwan*, Calcutta*, I.I.T. (Bombay*, Kanpur*, Kharagpur*, Madras*), Jadavpur, Madras, Nagpur, Punjab, Pune*, Rajasthan, Ravi Shankar, Roorkee*, Sambalpur*, **Master's :** Andhra (ore- dressing), Ranchi and Universities marked*.

Metheorology : Master's : Andhra.

Microbiology†: Annamalai, Banaras, Baroda, Bombay, Delhi, Gujarat, Haryana Agri., Karnatak, Madras (MD), Punjab, Punjab Agri. P. G. Research Inst. in Medicine, Rajasthan, Saurashtra, South Gujarat.

Military Science/Studies†: Agra, Allahabad (defence studies), Gorakhpur, Jiwaji, Kurukshetra, Lucknow, Meerut, Punjab, Poona, Punjabi.

Museology : Diploma : Banaras, Baroda, Calcutta.

Music : Bachelor's : Annamalai, Banaras, Baroda, Calcutta, Delhi, Indore, Kerala, Madurai, Mysore, Rabindra Bharati (also dance), S. N. D. T., Srivenkateswara, Visva-Bharati. **Master's:** Banaras, Baroda, Delhi, Indira Kala Sangit (also dance), Indore, Jabalpur, Kerala, Madras, Mysore, Nagpur, Punjab, Rabindra Bharati (also dance), Rajasthan, Srivenkateswara. **Diploma/Certificate:** Agra (also Indian music), Allahabad (Indian Music), Banaras, Baroda, Bombay (Hindustani vocal classical), Burdwan, Delhi (Hindustani music or Karnatak music), Gujarat (also dancing), Indira Kala Sangit (also dance), Madras, Patna, Poona, Punjabi, Rabindra Bharati (also dance), Saugar (military music), Saurashtra, Varanaseya Sans. Vish., Visva-Bharati (music, dance & vocal music).

Naval Architecture : Bachelor's : Kharagpur.

Nursing : Bachelor's : Bombay, Delhi, Gujarat, Indore, Kerala, Madras, Osmania, Punjab, Poona, Rajasthan, S.N.D.T., **Master's :** Delhi, Madras.

Occupational Therapy: Bachelor's: Bombay, Nagpur.

Oceanography : Master's : Andhra, Kerala.

Operational Research : Master's : Delhi.

Oriental Learning: Bachelor's: Bihar, Osmania, Sambalpur, Utkal. **Master's :** Bihar, Rajasthan **Diploma:** Nagpur, Osmania.

Oriya† : Berhampur, Burdwan, Sambalpur, Utkal, Visva Bharati. **Diploma/Certificate :** Visva-Bharati.

Painting : Bachelor's : Indira Kala Sangit, Meerut, S.N.D.T., Visva-Bharati. **Master's :** Agra, Indira Kala Sangit, Meerut, Rajasthan, Udaipur, Vikram. **Diploma/Certificate :** Allahabad, Annamalai, Banaras, Baroda, Gujarat, Indira Kala Sangit, Rabindra Bharati.

Pali† : Banaras, Baroda, Bombay, Burdwan, Calcutta, Gujarat, Jabalpur, Kurukshetra, Marathwada, Nagpur, Patna, Poona, Shivaji, Visva-Bharati. **Diploma/Certificate :** Lucknow, Visva-Bharati.

Punjabi† : Delhi, Gauhati, Guru Nanak, Kurukshetra, Punjab, Punjabi, **Diploma/Certificate :** Allahabad, Jammu, Punjabi.

Pharmacy: Bachelor's: Andhra*, Banaras*, Bangalore, Birla*, Bombay*, Gujarat*, Jadavpur*, Jodhpur, Kerala, Madras*, Madurai, Mysore*, Nagpur*, Punjab*, Saugar*, Shivaji, **Master's :** Universities marked*. **Diploma/Certificate :** Gujarat, Punjab, Poona.

Philosophy†: Gujarat Vidyapith, Rabindra Bharati and all universities listed above under 'Economics' except Berhampur, Birla, Himachal Pradesh, South Gujarat.

Physical Education : Bachelor's : Bangalore, Jiwaji, Kalyani, Madras, Madurai, Punjab, Punjabi, Ravi Shankar, Shivaji, **Master's :** Jiwaji, Madras, Punjab, Punjabi, **Diploma:** Andhra, Banaras, Bangalore, Gujarat, Jabalpur, Jiwaji, Kalyani, Lucknow, Madras, Nagpur, Osmania, Punjabi, Shivaji (also cert.).

Physics† : Calicut, Cochin, Himachal Pradesh, Indian Inst. of Science, I.I.T. (Bombay, Kanpur, Delhi, Kharagpur, Madras), Jadavpur, Jammu, Roorkee and all Univ. listed above under 'Botany' except Haryana Agri.

Physiotherapy: Bachelor's: Baroda, Bombay (Physical therapy).

Planning : Master's : Calcutta, (City & Regional planning). **Master's :** Kharagpur (Town & Regional planning). **Diploma :** Calcutta ; (Town & Country planning). **Bachelor's :** Madras.

Political Science† : All universities listed above under 'Economics' except Haryana Agri., Punjab Agri. and South Gujarat.

Prakrit† : Allahabad, Baroda, Bihar, Gujarat, Jabalpur, Kurukshetra, Lucknow, Nagpur, Visva-Bharati. **Diploma** Mysore.

Psychology† : Guru Nanak and all Universities listed above under 'Economics' except Berhampur, Birla, Dibrugarh, Haryana Agri., Himachal Pradesh, Jadavpur, Jammu, Jiwaji, Punjab Agri., Sambalpur, Varanaseya Sans. Vish. and Visva-Bharati.

Public Administration†: Aligarh, Andhra, Karnatak, Lucknow, Madras, Marathwada, Mysore, Nagpur, Osmania, Punjab, Patna, Poona, Punjabi, Rajasthan, Saugar, South Gujarat, Utkal. **Diploma :** Aligarh, Gorakhpur, Lucknow, Osmania, Patna. **Local Self Govt. Diploma :** Nagpur.

Sanitary Science : Bachelor's : Madras.

Sanskrit† : Rabindra Bharati and all universities listed above under 'Economics' except Berhampur, Haryana Agri., Punjab Agri. & Sambalpur.

Sculpture : Bachelor's : Visva-Bharati. **Diploma :** Banaras, Baroda. Gujarat.

Sindhi† : Bombay, Gujarat, Punjab, Poona, Punjabi.

Social Service: Diploma/Certificate : Allahabad, Kerala, Madras.

Social Work : Bachelor's : Bombay, Kashi Vidypith, Mysore, Visva-Bharati. **Master's :** Agra, Andhra, Baroda, Bombay, Delhi, Gujarat Vidyapith, Delhi, Indore, Karnatak, Kashi Vidyapith, Kerala, Lucknow, Madras, Mysore, Shivaji, Udaipur. **Diploma/Certificate :** Calcutta, Nagpur, Poona.

Sociology†: Agra, Aligarh, Andhra, Annamalai, A. P. Singh, Banaras, Bangalore, Baroda, Bhagalpur, Bhopal, Bombay, Calcutta, Delhi, Dibrugarh, Gorakhpur, Gujarat, Haryana Agri., Indore, Jabalpur, Jiwaji, Jodhpur, Kalyani, Kanpur, Kashi Vidyapith, Kerala, Lucknow, Madras, Marathwada, Meerut, Mysore, Nagpur, Osmania, Punjab, Punjab Agri., Patna, Poona, Punjabi, Rajasthan, Ravi Shankar, Sardar Patel, Saugar, Saurashtra, Shivaji, S.N.D.T., South Gujarat, Srivenkateswara, Udaipur, Utkal, Vikram, Visva-Bharati. **Applied Sociology :** Kashi Vidyapith.

Statistics†: Agra, Aligarh, Allahabad, Andhra, Annamalai, Banaras, Bangalore, Baroda, Bhagalpur, Bombay, Burdwan, Calcutta, Delhi, Dibrugarh, Gauhati, G. B. Pant University of Agri. & Tech., Gujarat, Guru Nanak, Haryana, Agri. I.I.T., Kanpur, Indore, Kanpur, Karnatak, Kerala, Lucknow, Madras, Meerut, Mysore, Nagpur, Osmania, Punjab, Punjab Agri., Patna, Poona, Rajasthan, Sardar Patel, Shivaji, South Gujarat, Srivenkateswara, Utkal, Vikram. **Diploma/Certificate :** Aligarh, Andhra (applied statistics), Gauhati, Gujarat, Karnatak, Kurukshetra, Madras, Punjab (also economic statistics), Punjabi. **Applied Statistics (Econometrics) : Master's :** South Gujarat.

Tamil† : Allahabad, Annamalai, Banaras, Delhi, Kerala, Lucknow, Madras, Madurai, Osmania, Punjab, Punjabi, Srivenkateswara, Utkal. **Diploma/Certificate:** Agra, Aligarh, Allahabad, Annamalai (teaching Tamil), Banaras, Lucknow, Madras, Punjab, Udaipur.

Technology : (see also 'Engineering' above). **Bachelor's : ceramic** — Calcutta, Osmania. **Food :** Andhra, Bombay, Jadavpur. **Intermediates and dyes, pigments, paints and varnishes, plastics** — Bombay. **Leather** — Calcutta, Madras. **Oils, fats and waxes,** — Bombay, Nagpur, Osmania. **Paints and varnishes** — Osmania. **Pharmaceuticals and fine chemicals** — Bombay, Osmania. **Plastics & rubber** — Bombay, Calcutta. **Silicate** — Banaras. **Textile chemistry** — Bombay. **Textiles** — Bangalore, Baroda, Bombay, Burdwan, Calcutta, I. I. T. Delhi, Kanpur, Madras, Punjab. **Master's : Applied chemistry** — Calcutta, Indore, Jabalpur, Kerala. **Applied geology** — Andhra, Banaras, Baroda, Dibrugarh, Jadavpur, Kharagpur, Nagpur, Osmania, Rajasthan, Ravi Shankar, Roorkee, Saugar. **Applied Physics** — Andhra, Calcutta, Indore, Jabalpur. **Ceramic :** Banaras, Osmania. **Fermentation:** Bombay. **Fibre Science :** I. I. T., Delhi, **Food :** Bombay, Jadavpur, Mysore. **Geophysics :** Andhra, Kharagpur. **Glass :** Banaras. **Industrial electronics :** Kharagpur. **Intermediates & dyes :** Bombay. **Leather :** Madras. **Petrochemicals:** Kharagpur. **Pharmaceuticals & fine chemicals :** Bombay, Osmania. **Photogrammetric** Roorkee. **Radar :** I. I. T., Madras. **Radio-Physics & electronics:** Calcutta. **Silicate :** Banaras. **Furnaces & refractories :** Madras, Osmania.

Telugu†: Aligarh, Andhra, Annamalai, Madras, Osmania, Srivenkateswara, Utkal. **Diploma/Certificate :** Agra, Aligarh, Allahabad, Annamalai, Banaras, Madras.

Theology : (see also 'Islamic studies' and 'Indian Philosophy and Religion') **Diploma :** Aligarh.

Urdu†: Agra, Aligarh, Annamalai, Allahabad, Banaras, Baroda, Bhopal, Bihar, Bombay, Burdwan, Calcutta, Delhi, Gauhati, Gorakhpur, Gujarat, Jabalpur, Jammu, Karnatak, Kerala, Lucknow, Madras, Marathwada, Mysore, Nagpur, Osmania, Punjab, Patna, Poona, Rajasthan, Ravi Shankar, Saugar, Shivaji, Srivenkateswara, Udaipur, Utkal, Vikram. **Diploma/Certificate:** Aligarh, Allahabad, Delhi, Jammu, Lucknow, Madras, Visva-Bharati.

Veterinary Science : Bachelor's : Agra*, **Agri. Sciences** (Bangalore), Assam. Agri.*, Calcutta*, G. B. Pant University of Agri. & Tech.*, Haryana Agri.*, J. L. Nehru Krishi Vish*, Kerala*, Madras*, Magadh, Punjab Agri.*, Punjab Rao Krishi*, Ranchi, Sardar Patel*, Udaipur*. **Master's :** Universities Marked*. **Diploma :** Assam Agri.

Yogic Science : Diploma : Saugar.

Zoology†: All universities listed above under 'Botany' except Haryana Agri. & South Gujarat. **Zoo-Physiology Master's :** Kerala.

DENTAL COLLEGES : Dental Wing, Osmania Medical College, Hyderabad, Andhra Pradesh ; Dental College & Hospital, Patna, Bihar ; Govt. Dental College and Hospital Ahmedabad, Gujarat ; Dental Wing, Govt. Medical College, Trivandrum, Kerala ; College of Dentistry, Indore, Madhya Pradesh; Nair Hospital Dental College, Bombay, Maharashtra; Govt. Dental College and Hospital, Bombay, Maharashtra; Govt. Dental College and Hospital, Nagpur, Maharashtra ; Govt. Dental College & Hospital, Bangalore, Karnataka ; College of Dental Surgery, Kasturba Medical College, Manipal, South Kanara, Karnataka ; Punjab Govt. Dental College and Hospital, Amritsar, Punjab ; Dental Wing, Medical College, Patiala, Punjab ; Dental Wing, Medical College, Madras, Tamil Nadu ; Dental College of K. G. Medical College, Lucknow, Uttar Pradesh ; and Dr. B. Ahmed Dental College and Hospital, Calcutta, West Bengal.

Specialised Studies: The Dental Council of India has prescribed nine specialised subjects for post-graduate education in dentistry. They are (*i*) Prosthetic Dentistry, (*ii*) Oral Surgery, (*iii*) Operative Dentistry, (*iv*) Orthodontia, (*v*) Periodontia, (*vi*) Oral Diagnosis and Dental Radiology, (*vii*) Dental Pathology and Bacteriology, (*viii*) Pedodontia and Preventive Dentistry and (*ix*) Public Health Dentistry.

Departments in these specialised fields exist in the following Dental Institutions :—

Government Dental College and Hospital, Ahmedabad, Gujarat — Operative Dentistry, Prosthetic Dentistry, Periodontia, Oral Pathology & Bacteriology, Oral Diagnosis and Dental Radiology, Orthodontia and Oral Surgery.

Dental College, Bangalore, Karnataka — Orthodontia, Oral Surgery, Periodontia, Oral Diagnosis and Dental Radiology and Public Health Dentistry.

Dental Wing, Medical College, Trivandrum, Kerala — Operative Dentistry, Prosthetic Dentistry, Orthodontia and Oral Surgery.

Government Dental College and Hospital, Bombay, Maharashtra — Prosthetic Dentistry, Periodontia, Orthodontia, Dental Pathology and Bacteriology, Oral Surgery, Operative Dentistry and Dental Radiology.

Nair Hospital Dental College, Bombay, Maharashtra — Prosthetic Dentistry, Periodontia, Operative Dentistry, Orthodontia, Dental Pathology & Bacteriology, Dental Radiology and Oral Surgery.

Punjab Govt. Dental College and Hospital, Amritsar — Punjab — Dental Prosthetics, Crown and Bridge work, Pedodontia and Preventive Dentistry.

Dental Wing, Madras Medical College, Madras, Tamil Nadu — Oral Surgery, Periodontology and Operative Dentistry.

Dental College of K. G. Medical College, Lucknow, Uttar Pradesh — Prosthedontics, Periodontics, Orthodontics, Oral Surgery Pedodontia & Preventive Dentistry.

College of Dental Surgery, Kastura Medical College, Manipal, South Kanara — Karnataka — Orthodontia, Operative Dentistry, Periodontics and Prosthetic Dentistry.

Facilities for training of **Dental Mechanics** and **Dental Hygienists** are available at: (1) Government Dental College and Hospital, Bombay, Maharashtra; (2) Dental Wing, Madras Medical College, Madras, Tamil Nadu; (3) Dental College and Hospital, Bangalore, Karnataka; 4 Dental College of K. G. Medical College, Lucknow, Uttar Pradesh; (5) Dental College, Trivandrum, Kerala; (6) Govt. Dental College & Hospital, Nagpur—Dental Hygienist Course only and some Centres of Armed Forces for army personnel only.

PHARMACY COLLEGES : The names of the 47 institutions which impart pharmacy courses are given below:—

Andhra Pradesh: Andhra University Colleges of Science & Technology, Department of Pharmacy, Waltair (B. Pharm.; M. Pharm., Ph.D.); Government Polytechnic for Women, Kakinada (*D. Pharm.); Kamala Nehru Girls Polytechnic, Mukram Jahi Market, Hyderabad (*D Pharm.); Government Polytechnic, Hyderabad (*D. Pharm.); Government Polytechnic, Visakhapatnam (D. Pharm.); Government Polytechnic, Tirupati (*D. Pharm.).

Assam : Assam Medical College, Dibrugarh (*D.Pharm.).

Bihar : Pharmacy School, Patna (*D. Pharm.); Institute of Pharmacy, Patna (D. Pharm.).

Delhi : Pusa Polytechnic, Pusa, New Delhi (*D. Pharm, B. Pharm. Hamdard College of Pharmacy, Tubhlaqabad, N. Delhi, (D. Pharm, B. Pharm).

Goa : Goa College of Pharmacy, Panaji (*D. Pharm., B. Pharm.).

Gujarat : L. M. College of Pharmacy, Navrangpura, Ahmedabad (*D. Pharm; Inter Pharm; *B. Pharm., M. Pharm., Ph.D.); M. N. College of Pharmacy, Cambay (D. Pharm.; B. Pharm.).

Karnataka : Government College of Pharmacy, Bangalore (*D. Pharm., *B. Pharm.); College of Pharmaceutical Sciences, Shimoga (*D. Pharm.); Kasturba Medical College, Manipal (*D. Pharm., *B. Pharm.); V. L. College of Pharmacy, Raichur (*D. Pharm.); School of Pharmacy, Belgaum (*D. Pharm.); Medical College, Mysore (D. Pharm.).

Kerala : Maharaja's College, Ernakulam (M. Sc. Pharmaceutical Chemistry); Medical College, Calicut (*D. Pharm.); Medical College, Trivandrum (*B. Pharm.).

Madhya Pradesh : Pharmacy Department, University of Saugar, Saugar (*B. Pharm.); S. V. Government Polytechnic, Bhopal (*D. Pharm.); Holkar Science College, Indore (B. Pharm.).

Maharashtra : Bombay College of Pharmacy, Kalina, Bombay (B. Pharm.); Government Polytechnic, Karad (*D. Pharm.); College of Engineering, Karad (B. Pharm.); Government Polytechnic, Amravati (*D. Pharm.); Department of Chemical Technology, Bombay-19, (B. Pharm.); Nagpur University, Nagpur (B. Pharm.); Armed Forces Medical College, Pune (*Dispenser's Course); Poona College of Pharmacy, Pune (*D. Pharm.); College of Pharmacy, Ulhasnagar (D. Pharm; B. Pharm.).

Orissa: S. C. B. Medical College, Cuttack (*D. Pharm.).

Punjab and Haryana: Government Medical College, Patiala (*D. Pharm. and Dressers' Course); Medical College, Amritsar (*D. Pharm. and Dressers' Course); Rohtak Medical College, Rohtak, Haryana (*D. Pharm.); Govt. Polytechnic for Women, Ambala (*D. Pharm.); Govt. Polytechnic for Women, Chandigarh (*D. Pharm.); Govt. Polytechnic for Women, Jullunder (D. Pharm.), Department of Pharmacy, Punjab University, Chandigarh (*B. Pharm.).

Rajasthan: Birla Institute of Technology and Science, Pilani (*B. Pharm. (Hons.), B. Pharm. (Tech)); S. M. S. Medical College, Jaipur (M. Pharm.).

Tamil Nadu: Madras Medical College, Park Town, Madras (*D. Pharm., *B. Pharm.); Madurai Medical College, Madurai (*D. Pharm., *B. Pharm.); Christian Medical College, Vellore (*D. Pharm.).

Uttar Pradesh: Institute of Technology, Banaras Hindu University, Varanasi (*B. Pharm.); G. S. V. M. Medical College, Kanpur (*D. Pharm.); Motilal Nehru Medical College, Allahabad (D. Pharm).

West Bengal: Pharmacy Training Centre, Jalpaiguri (*D. Pharm.); Jadavpur University, Calcutta (B. Pharm.).

MEDICAL COLLEGES : The list of the 101 medical colleges offering M.B.B.S. is as follows:—

Andhra Pradesh : Andhra Medical College, Visakhapatnam; Guntur Medical College, Guntur; Rangaraya Medical College, Kakinada; Osmania Medical College, Hyderabad; Gandhi Medical College, Hyderabad; Kakatiya Medical College, Warrangal; Kurnool Medical College, Kurnool; S. V. Medical College, Tirupati.

Assam: Gauhati Medical College, Gauhati; Silchar Medical College, Ghungoor; Regional Medical College, Imphal; Assam Medical College, Dibrugarh.

Bihar : Darbhanga Medical College, Laherisarai; Sri Krishna Medical College, Laherisarai; Bhagalpur Medical College, Bhagalpur; Patliputra Medical College, Patna; Nalanda Medical College, Patna; Magadh Medical College, Gaya; P. W. Medical College, Patna. Rajendra Medical College, Ranchi; Nalanda Medical College, Patna; M. G. M. Medical College, Jamshedpur; Post-graduate Training Centre† Hospital for Mental Diseases, Ranchi.

Delhi : Lady Hardinge Medical College, New Delhi; Maulana Azad Medical College, New Delhi; University Medical College, Delhi; All India Institute of Medical Sciences, New Delhi; Vallabhbhai Patel Chest Institute†, Delhi.

Gujarat : B. J. Medical College, Ahmedabad; Municipal Medical College, Ahmedabad. Medical College, Vadodara. M. P. Shah Medical College, Jamnagar. Government Medical College, Surat.

Himachal Pradesh: H. P. Medical College, Simla.

Jammu and Kashmir : Government Medical College, Srinagar; Medical College, Jammu.

Karnataka : Mysore Medical College, Mysore; Kasturba Medical College, Manipal; J. J. M. Medical College, Devangere; Bangalore Medical College, Bangalore; St. John's Medical College, Bangalore; All India Institute of Mental Health†, Bangalore; School of Aviation and Medicine†, Bangalore; Karnatak Medical College, Hubli; J. L. N. Medical College, Belgaum; Medical College, Gulbarga; Medical College, Bellary.

Kerala : Medical College, Trivandrum; Medical College, Kottayam; T. D. Medical College, Alleppey; Medical College, Calicut.

Madhya Pradesh : Medical College, Jabalpur.; G. R. Medical College, Gwalior. M. G. M. Medical College, Indore, Gandhi Medical College, Bhopal; J. L. N. Medical College, Raipur; S. S. Medical College, Rewa.

Maharashtra : Grant Medical College, Bombay; Seth G. S. Medical College, Bombay; T. N. Medical College, Bombay; L. T. M. Medical College, Sion, Bombay; Goa Medical College, Panaji. B. J. Medical College, Pune; Armed Forces Medical College, Pune; Miraj Medical College, Miraj; Dr. V. M. Medical College, Sholapur;

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* Approved by the Pharmacy Council of India for qualifying for registration as a pharmacist under the Pharmacy Act, 1948.

† Colleges imparting instruction for various courses except for M.B.B.S.

Government Medical College, Aurangabad; Medical College, Nagpur; Corp. Medical College, Nagpur; M. G. College of Medical Sciences, Sevagram, Wardha.

Orissa: S. C. B. Medical College, Cuttack; V. S. S. Medical College, Burla; M. K. C. G. Medical College, Berhampur.

Punjab and Haryana: Government Medical College, Patiala; Christian Medical College, Ludhiana; Dayanand Medical College, Ludhiana; Government Medical College, Rohtak; Institute of P. G. Medical Education & Research, Chandigarh; Medical College, Amritsar.

Rajasthan: S. M. S. Medical College, Jaipur; S. P. Medical College, Bikaner; R. N. T. Medical College, Udaipur; Dr. S. N. Medical College, Jodhpur; J. L. N. Medical College, Ajmer.

Tamil Nadu and Pondicherry: Medical College, Madras; Stanley Medical College, Madras; Christian Medical College, Vellore; Kilpauk Medical College, Madras; Thanjavur Medical College, Thanjavur; Medical College, Chingleput; Medical College, Coimbatore; J. L. Institute of P/G Medical Education and Research, Pondicherry; Madurai Medical College, Madurai; Medical College, Tirunelveli; Institute of Rural Health and Family Planning†, Gandhigram.

Uttar Pradesh: S. N. Medical College, Agra; M. L. N. Medical College, Allahabad; J. L. N. Medical College, Aligarh; Institute of Medical Sciences, Varanasi; G. S. V. M. Medical College, Kanpur; M. L. Bai Medical College, Jhansi; Nehru Institute of Ophthalmology and Research & Eye Hospital†, Sitapur; K. G. Medical College, Lucknow; L. L. R. M. Medical College, Meerut; B. R. D. Medical College, Gorakhpur.

West Bengal: Medical College, Calcutta; R. G. Kar Medical College, Calcutta; N. R. S. Medical College, Calcutta; C. N. Medical College, Calcutta; B. S. Medical College, Bankura; All India Institute of Hygiene & Public Health†, Calcutta; C. B. S. College of Obstetrics and Gynaecology and Child Health, Calcutta; School of Tropical Medicine†, Calcutta; Institute of Child Health†, Calcutta; University College of Medicine†, Calcutta. North Bengal University Medical College, Raja-Rammohanpur; B. U. Medical College, Burdwan.

YOGA INSTITUTES

Bihar: Institute of Yoga Research (Bihar Government) Dept. of Cardio-Vascular Diseases, The Prince of Wales Medical College Hospital, Patna 800001.

Gujarat: Yoga Sadhan Ashram, 16, Pritamnagar, Ahmedabad 390006.

Madhya Pradesh: Saugar University, Dept. of Yogic Studies, Saugar 470001.

Maharashtra: Yoga Institute, Santa Cruz (East), Bombay 400055.

Yoga Mahavidyalaya, Khatri Estate, Falkland Rd., Bombay 400008.

Kaivalyadhama (Ishwardas Chunilal Yogic Health Centre), N. Subash Rd., Bombay 400002.

Yoga Education Centre, Hindi Vidya Bhavan, 79, Marine Drive, Bombay 400020.

G. S. College of Yoga & Cultural Synthesis, Kaivalyadhama, Lonavala, Pune.

New Delhi: Yogashram, Mandir Lane, Behind Lakshmi Narayan Temple, New Delhi 110001.

Vishwayatan Yogashram, Alexandra Place, Opp. Gole Post Office, New Delhi 110001.

Tamil Nadu: All India Manava Sevak Samaj, 39, Sullivan Garden Rd., Mylapore, Madras 600004.

Kriya Baba Yoga Rehabilitation Centre, 1-A, Arulananda Mudali St., Madras 600004.

Prof. T. Krishnamacharya's Yoga Institute, 9, West Circular Rd., Mandavalli Pakkam, Madras 600028.

Yoga Centre, Arya Samaj, 107, Lloyds Rd., Madras 600006.

Training Teachers for Deaf & Dumb, Blind & Mentally Handicapped.

Centre for Training Teachers of the Deaf, Lady Noyce School for the Deaf, Kotla Ferozahah, New Delhi 110001.

Central Institute of Teachers of the Deaf, Central Court, 18, Motlibai St., Agripada, Bombay 400011.

Training Centre for Teachers of the Deaf, C/o Education Audiology & Research Centre, Punam, 67, Nepean Sea Rd., Bombay 400006.

Training Centre for the Teachers of the Mentally Handicapped Children, Sewri Hill, Bombay 400033.

National Academy of the Teachers of the Blind, C/o School for the Blind, Palayamkottai, Tirunelveli.

Training College for the Teachers of the Deaf, Aishbagh, Lucknow 226001.

Training College for the Teachers of the Deaf, Calcutta Deaf & Dumb School, 293, A. P. Chandra Rd., Calcutta 700009.

RESEARCH

Expenditure: In 1952-53 the country spent Rs. 122 million on research and development. By 1971-72 it had gone up to Rs. 2,150 million.

India's per capita expenditure on research and development compared to other countries (1960-61 figures): India — Rs. 4; United States — Rs. 400; United Kingdom — Rs. 160 and the Soviet Union — Rs. 100.

Fifth Plan: The allocation proposed is Rs. 25,000 million.

Manpower: The stock of qualified science and engineering graduates is nearly 1·2 million. The availability of technical manpower for a population of 550 million is nearly 1 : 450 compared to Japan's 1: 440 with a population of only 104·7 million.

The number of persons employed in research and development establishments in India increased from 20,724 in 1958-59 to 103,767 in 1971-72.

GROWTH OF RESEARCH AND DEVELOPMENT IN INDIA

Year	Total R & D Exp. in mil. Rs.	Per capita R & D Exp. in Rs.	R & D Exp. as %of Nat. Income	Total Tech. staff emp. in R & D est.
1958-59 ..	290	0·78	0·25	20,724
1968-69 ..	1,310	2·56	0·44	73,634
1971-72 ..	2,150	3·91	0·54	103,767

NATIONAL RESEARCH DEVELOPMENT CORPORATION OF INDIA: 61, Ring Rd., Lajpat Nagar III, New Delhi 110024.

Main Functions: To stimulate development and commercial exploitation of Indian patents and inventions; award prizes for outstanding inventions; finance pilot plants/demonstration units and making of prototypes in collaboration with industry ; and aid horizontal transfer of technology from one industry to another to minimise repetitive import of technology.

Publications :—NRDC Process List ; Invention Intelligence (English Monthly) ; *Awishkar (Hindi Monthly).

Chairman : M. S. Pathak.

Managing Director : Dr. C. V. S. Ratnam.

COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH : Rafi Marg, New Delhi-110001.

CSIR functions as a part of the Science & Technology Dept., Ministry of Industrial Development. There are 30 research establishments which include national laboratories, institutes, organisations, regional laboratories, two science museums and two information centres. In addition, there are constituent technical divisions at the Headquarters, *viz.*, the Scientific and Technical Personnel Division, the Research Co-ordination and Industrial Liaison Division, the Research Survey and Planning Division, the Patent Unit, the Process Evaluation Cell, the Grant-in-Aid Unit, the Science Reporter unit and the Public Relations unit.

National Register maintained by the Division of Scientific and Technical Personnel, CSIR, is a clearing house of information regarding availability and utilisation of Indian scientists, engineers, technologists, medical personnel and social scientists in India and abroad.

NATIONAL LABORATORIES/INSTITUTES

Aeronautical Laboratory, National, *P.O. Bag No.* 4, *Kodihalli, Bangalore* 560017—Scientific investigations into the problems of flight and their practical application to design, construction and operation of aircrafts in India.

Botanic Gardens, National, *Rana Pratap Marg, Lucknow* 226000—Collection and large-scale cultivation of economic and medicinal plants of industrial importance.

Building Research Institute, Central, *Roorkee, Uttar Pradesh*—Engineering and structural aspects of building and human comforts in relation to buildings.

Chemical Laboratory, National, *Pashan, Pune*—Fundamental and applied research covering the whole field of chemistry for which other specialised institutes have not been set up. The National Collection of Type Cultures is housed in the Laboratory.

Drug Research Institute, Central, *Chattar Manzil Palace, P.O. Box* 173, *Lucknow* 226000—All aspects of drug research including evaluation & standardisation of crude drugs, discovery of substitutes for pharmacopoeial drugs and plants, pharmaceutical and synthetic chemicals, bio-chemistry and biophysics, infection, immunisation, pharmacology, chemotherapy & experimental medicine.

Electro-Chemical Research Institute, Central, *Karaikudi* 623003, *Tamil Nadu*—Research on different aspects of electro-chemistry, including electro-metallurgy, electro-deposition and allied problems. The institute has two testing centres at Madras and Ramanathapuram.

Electronics Engineering Research Institute, Central, *Pilani-Rajasthan*—Design and construction of electronic equipments and components and test equipments.

Experimental Medicine, Indian Institute of, 4, *Raja Subodh Mullick Rd., Calcutta*-700032—Research in various aspects of biochemistry as applied to medicine, bacteriology, etc.

Food Technological Research Institute, Central, *Chaluvamba Mansion, V. V. Mohalla P.O., Mysore* 570002—Food processing and conservation and all aspects of fruit technology. Regional Fruit and Vegetable Preservation Stations at Trichur, Nagpur, Bombay, Lucknow, Mangalore, Simla, Jammu-Tawi and Cuddapah.

Fuel Research Institute, Central, *Jealogra, Dhanbad,* 826001, *Bihar*—Fundamental and applied research on fuels—Solid, liquid and gaseous, Physical and chemical surveys of coals are done by seven coal survey stations.

Geophysical Research Institute, National, *Hyderabad* 500007——Gravitational, magnetic, electrical and seismic surveys.

Glass and Ceramic Research Institute, Central, *Jadavpur University P.O., Calcutta*-700032—Applied research on glass, pottery, refractories, vitreous enamels and mica ; evaluation and utilization of indigenous raw materials, import substitution, development of new processes and products, improvement in quality of industrial products, standardisation, etc. ; Undertakes investigation and projects sponsored by industry and operates pilot plants for the production of optical glass and radiation shielding windows.

Leather Research Institute, Central, *Adyar, Madras* 600020—Fundamental and applied aspects of leather technology. The institute has five extension centres at Calcutta, Rajkot, Jullundur, Kanpur and Bombay.

Mechanical Engineering Research Institute, Central, *Mahatma Gandhi Ave., Durgapur* 713209, *W. Bengal*—It maintains Mechanical Engineering Research and Development Centres at Ludhiana, Pune and Madras.

Medicinal Plants Organisation, Central Indian, *National Botanic Gardens Campus, Lucknow* 226001—Development and cultivation of medicinal plants. It has two zonal centres located at Bangalore and Haldwani (U.P.), and four drug farms and factories in Jammu and Kashmir.

Metallurgical Laboratory, National, *Jamshedpur* 831007, *Bihar*—Fundamental and applied metallurgical research. It maintains four Regional Foundry Research Stations in Punjab, Tamil Nadu and West Bengal.

Mining Research Station, Central, *Barwa Rd., P.O. Box* 50, *Dhanbad* 826001, *Bihar*—Research in methods of mining, safety in mines and mine machinery.

National Environmental Engineering Research Institute (NEERI), Nehru Marg, Nagpur 440003. Formerly known as Central Public Health Engineering Research Inst. It has field centres at Sewage Farm Rd., Ahmedabad and Dr. Annie Besant Rd., Worli, Bombay.

Oceanography, National Institute of, *Miramar, Panaji, Goa,* Research on various aspects of physical, biological, geological and chemical oceanography including prospecting for petroleum and minerals in sea bed. The Institute maintains Indian Biological Centre and the Indian Ocean Physical Oceanographic Centre at Ernakulam. The International Biological Programme also functions at I.O.P.O. Centre, Ernakulam.

Petroleum, Indian Institute of, *Mokhampur, Dehra Dun* 248001—Research in petroleum refining and processing of natural gas, petro-chemicals, etc., and the training of personnel.

Physical Laboratory, National, *Hillside Rd., New Delhi* 110012—Research in fundamental and applied physics with facilities for testing.

Research Laboratory, Regional, *Bhubaneswar* 751004, *Orissa*—Bringing projects of potential local application to the attention of local industries and providing assistance in testing of their products.

Research Laboratory, Regional, *Hyderabad* 500009—General research & testing facilities.

Research Laboratory, Regional, *Canal Rd., Jammu-Tawi* 180001, *Jammu & Kashmir*—General research and research specially directed to medicinal plants of the Himalayas (Kashmir region).

Research Laboratory, Regional, *Jorhat* 785006, *Assam*—Research relating to more efficient utilisation and conservation of important national resources of Assam and surrounding areas.

Road Research Institute, Central, *Mathura Rd., New Delhi* 110020—Research and testing of road materials and road surfaces.

Salt & Marine Chemical Research Institute, Central, *Waghawadi Rd., Bhavnagar* 364002, *Gujarat*—Research in economic production of salts and by-products and development of new methods and technique for the recovery, production and utilization of various marine and allied chemicals.

Scientific Instruments Organisation, Central, *Sector* 30, *Chandigarh* 160020—Promotion and development of scientific instruments for teaching, research and industry with service centres in New Delhi and Madras.

Structural Engineering Research Centre, *Roorkee, Uttar Pradesh*—Research in specialised design and development work of buildings, bridges and other structures.

Toxicology Research Centre, Industrial, *Chattar Manzil Palace, Post Box* 80, *Lucknow* 226001 — To study effects of industrial toxins on skin, blood, gastro-intestinal tract, central nervous system, bones, etc.

SCIENCE MUSEUMS

Industrial & Technological Museum, Birla, 19*A Gurusaday Rd., Calcutta* 700019.

Industrial & Technological Museum, Visvesvaraya, *Kasturba Rd., Bangalore* 560001.

INFORMATION CENTRES

Publications and Information Directorate, *Hillside Rd., Delhi* 110012—It disseminates scientific and technical information through publication of encyclopaedias, journals and reports; and imparts training in publication and production work to personnel from information division of the national laboratories.

Documentation Centre, Indian National Scientific, *Hillside Rd., Delhi* 110012—Established with technical assistance from UNESCO, provides a complete range of documentation services to individuals and institutions all over the country.

INDIAN COUNCIL OF AGRICULTURAL RESEARCH, *Krishi Bhavan, New Delhi* 110001.

ICAR functions as a part of the Ministry of Agriculture. There are 24 research establishments which include institutes, laboratories and stations. Some of these have their own regional fields stations. In addition, nine Soil Conservation Research, Demonstration and Training Centres and the All India Soil and Land Use Survey Scheme have been transferred to the Council.

Agricultural Research Institute, Indian, *Pusa, New Delhi* 110012—The centre of origin of many new findings relevant to increasing productivity of our economic plants. Apart from its leading role in bringing about the Wheat Revolution, its research includes the widely accepted technique of relay cropping, new technology for dry areas, and research in upgrading protein quality cereals. Since 1958, about 1,200 students have taken M.Sc. and Ph.D. degrees from the Institute.

Agricultural Research Statistics, Institute of *Library Ave., New Delhi* 110012.

Arid Zone Research Institute, Central, *Jodhpur* 342001, *Rajasthan* — Research in agronomy, agrostology, arid zone silviculture, soil science etc.

Cotton Technological Research Laboratory, Matunga *Bombay.*

Dairy Research Institute, National, *Karnal* 132001, *Haryana. Regional Stations : Eastern — at Kalyan, West Bengal ; Southern — at P.O. Adugodi, Hosur Rd., Bangalore* 560030 ; *Western — at Aarey Milk Colony, Bombay* 400065.

Grassland and Fodder Research Institute, Indian, *Jhansi* 284001, *Uttar Pradesh.*

Horticultural Research, Institute of, *No.* 255, *Upper Palace Orchards, Bangalore* 560006.

Inland Fisheries Research Institute, Central, *Barrackpore, West Bengal.*

Jute Agricultural Research Institute, *Barrackpore, West Bengal.*

Jute Technological Research Laboratories, *Calcutta.*

Lac Research Institute, Indian, *Namkum, Ranchi, Bihar.*

Marine Fisheries Research Institute, Central, *Cochin, Kerala.*

Plantation Crops Research Institute, Central, *P.O. Krishnapuram* 690533, *Kerala State.*

Potato Research Institute, Central, *Simla* 171001, *Himachal Pradesh.*

Rice Research Institute, Central, *Cuttack* 753006, *Orissa.*

Sheep and Wool Research Institute, Central, *Avikanagar, Rajasthan.*

Soil Salinity Research Institute, Central, *Karnal, Haryana.*

Sugarcane Breeding Institute, *Coimbatore, Tamil Nadu.*

Sugarcane Research, Indian Institue of, *Lucknow, Uttar Pradesh.*

Tobacco Research Institute, Central, *Rajahmundry' Andhra Pradesh.*

Tuber Crops Research Institute, Central, *'Vardhini', Vazhuthacaud, Trivandrum* 695010.

Veterinary Research Institute, Indian, *Izatnagar, Uttar Pradesh.*

INDIAN COUNCIL OF MEDICAL RESEARCH, *Ansari Nagar, New Delhi* 110016.

The ICMR is an autonomous organisation which initiates, developes and co-ordinates bio-medical research in the country. It maintains seven permanent and several semi-permanent research institutes. These institutions and units have been marked with an asterisk in the list of other important medical research bodies mentioned below.

Anatomy : *Institute of Anatomy, Madras Medical College, Park Town, Madras* 600003.

Cancer : (1) *Cancer Research Institute of Tata Memorial Centre, Parel, Bombay* 400012. (2) *Chittaranjan National Cancer Research Centre,* 37, *S. P. Mookerjee Rd., Calcutta* 700026. (3) *Mehdi Nawaz Jung Cancer Hospital and Radium Institute, Red Hills, Hyderabad* 500001, *Andhra Pradesh.*

Health, Preventive Medicine : (1)†*All India Institute of Hygiene and Public Health,* 110, *Chittaranjan Ave., Calcutta* 700012. (2) *Chemical Examiners' Laboratory, Madras* 600003. (3) *Public Health Laboratory, Red Cross Rd., Trivandrum* 695001, *Kerala.* (4) *Government Analyst's Laboratory, Red Cross Rd., Trivandrum* 695001, *Kerala.*

Indian Systems of Medicine : (1) *Institute for Ayurvedic Studies and Research, Dhanwantri Mandir, P.O. Bag* 513, *Jamnagar* 361001, *Gujarat.* (2)† *Institute of Research in Indigenous System of Medicine, Approach Rd., Jogindernagar, Himachal Pradesh.*

Infectious Diseases : (1) **Cholera Research Centre,* 3 *Ishaque Rd.* (*Kyd St.*), *Calcutta* 700016. (2) *Institute of Venereology, Government General Hospital, Madras* 600003. (3)† *National Institute of Communicable Diseases,* 22, *Alipore Rd., Delhi* 110006.

Leprosy : (1)† *Central Leprosy Teaching and Research Institute, P.O. Box* 1, *Chingleput* 603001, *Tamil Nadu.* (2) *Leprosy Investigation and Treatment Centre, Zaheerabad, Medak District, Andhra Pradesh.* (3) *Schieffelin Leprosy Research Sanatorium, Karigiri, Via Katpadi, North Arcot District, Tamil Nadu.*

Medical Education and Research : (1)† *All India Institute of Medical Sciences, Ansari Nagar, New Delhi* 110016. (2)† *All India Institute of Physical Medicine and Rehabilitation, Haji Ali Park, Clerk Rd., Bombay* 400034. (3)† *Central Research Institute, Kasauli, Himachal Pradesh.* (4) *Haffkine Institute, Parel, Bombay* 400012. (5) *Indian Institute of Experimental Medicine,* 4 *Raja Subodh Mullick Rd., Calcutta* 700032. (6) *Institute of History of Medicine and Medical Research,* 2/A-3, *Asaf Ali Rd., New Delhi* 110001. (7) *Institute of Post-graduate Medical Education and Research,* 244, *Lower Circular Rd., Calcutta* 700020. (8)† *Jawaharlal Nehru Institute of Post-graduate Medical Education and Research, Pondicherry* 605006. (9)† *National Institute of Health Administration and Education, E-*16, *Greater Kailash, New Delhi* 110048. (10) *Post-graduate Institute of Indian Medicine, Varanasi* 221005, *Uttar Pradesh.* (11) *Post-graduate Institute of Medical Education and Research, Sector* 12, *Chandigarh* 160001. (12) *Sheth K. M. School of Postgraduate Medicine and Research, Ellis Bridge, Ahmedabad* 380006.

Mental Health : (1)† *All India Institute of Mental Health, P.O. Bag* 15, *Shantinagar P.O., Bangalore* 560027. (2) *Hospital for Mental Diseases and Post-graduate Training Centre, Kante, Ranchi* 834001, *Bihar.*

Nutrition: **National Institute of Nutrition, Jamai-Osmania, Hyderabad-*500007, *Andhra Pradesh.*

Occupational Health : (1) *Industrial Toxicology Research Centre, Chattar Manzil Palace, Post Box* 80, *Lucknow,* 226001, *Uttar Pradesh.* (2)* *National Institute of Occupational Health, Opp. New Mental Hospital, Ahmedabad* 380016, *Gujarat.*

Ophthalmology : (1) *M. U. Institute of Ophthalmology, Gandhi Eye Hospital, Aligarh* 202001, *Uttar Pradesh.* (2) *Nehru Institute of Ophthalmology, Eye Hospital, Sitapur* 261001, *Uttar Pradesh.*

Paediatrics : (1) *B. M. Institute, Balghar, Godavari Centre for Family Relations, Navrangpura, Near Nehru Bridge, Ahmedabad* 380009, *Gujarat.* (2) *Institute of Child Health,* 11, *Dr. Biresh Guha Rd., Calcutta* 700017.

Pathology :* *Indian Registry of Pathology, C/o Department of Pathology, Safdarjung Hospital, P.O. Box* 3039, *New Delhi* 110003.

Pharmacy : (1) *Central Drug Research Institute, Chattar Manzil Palace, P.O. Box* 173, *Lucknow,* 226001, *Uttar Pradesh.* (2)† *Central Drug Laboratory,* 3, *Ishaque Rd.* (*Kyd St.*), *Calcutta* 700016.

Physiology : (1)* *Blood Group Reference Centre, Seth G. S. Medical College, Bombay* 400012. (2) *Defence Institute of Physiology and Allied Sciences, Cantonment, New Delhi* 110010.

Radiotherapy : (1) *Barnard Institute of Radiology, Madras Medical College, Madras* 600003. (2) *Institute of Nuclear Medicine and Allied Sciences, Probyn Rd., Delhi* 110006.

Reproduction: (1)* *Institute for Research in Reproduction, Jehangir Merwanji St., Parel, Bombay* 400012.

Serology : (1)† *B. C. G. Vaccine Laboratory, Guindy, Madras* 600032. (2) *Government Vaccine Institute and Pasteur Institute, Namkum P.O., Ranchi* 834010, *Bihar.* (3) *King Institute of Preventive Medicine, Guindy, Madras* 600032. (4) *State Vaccine Institute, Patwadanagar, Nainital,* 263001, *Uttar Pradesh.*

Tuberculosis : (1) *Government Chest Institute and Tuberculosis Demonstration and Training Centre, Spur Tank Rd., Chetput, Madras* 600013. (2)† *National Tuberculosis Institute,* 8, *Bellary Rd., Bangalore* 560003. (3)* *Tuberculosis Chemotherapy Centre, Chetput, Madras* 600013. (4)† *Vallabhbhai Patel Chest Institute, University of Delhi, Delhi* 100007.

Virus Infections : (1)* *Entero-viruses Research Unit, C/o Haffkine Institute, Parel, Bombay* 400012. (2)* *Virus Research Centre,* 20-*A, Wellesley Rd., Pune* 410101, *Maharashtra.*

Voice and Speech : †*All India Institute of Speech and Hearing, Maharaja College Centenary Hall, Mysore* 570005.

OTHER CENTRAL GOVERNMENT INSTITUTIONS

Anthropological Survey of India, 27, *Jawaharlal Nehru Rd., Indian Museum, Calcutta* 700013. (*Min. of Edu.*).

Atlas Organisation, National, 50A, *Gariahat Rd., Calcutta* 700019. (*Min. of Edu.*).

Bee Research Institute, Central, 839/1 *Shivajinagar, Pune* 411004. (*Min. of Ind. Dev.*).

Botanical Survey of India, 14, *Madan St., Calcutta* 700013. (*Min. of Edu.*). (1) *Central Circle*—10, *Chatham Lines, Allahabad* 211002, *Uttar Pradesh.* (2) *Eastern Circle — 'Woodlands', Lower New Colony, Shillong* 793003, *Assam.* (3) *Northern Circle* — 3, *Lakshmi Rd., Dehra Dun* 248001, *Uttar Pradesh.* (4) *Southern Circle* —29, *Dewan Bahadur Rd., R. S. Puram, Coimbatore* 461002, *Tamil Nadu.* (5) *Western Circle—Koregaon Rd., Moti Mansion, Pune* 411001, *Maharashtra.*

Botanic Garden, Indian, *Shibpore, Howrah* 711103, *West Bengal.* (*Min. of Edu.*).

Buildings Organisation, National, *Nirman Bhavan, 'G' Wing, Maulana Azad Rd., New Delhi* 110011 (*Min. of Works & Hsg.*).

Civil Aviation Department, Research and Development Directorate, *Technical Centre, Civil Aviation Department, Safdarjung, New Delhi* 110003. (*Min. of T. & C. Avn.*).

Coconut Research Station, Central, (1) *At Kasargod, Kuldu P. O. Kerala ;* (2) *At Kayangulam, Ochira P. O., Kerala.*

Coffee Research Institute, Central, *P.O. Coffee Research Station, Chikmagalur Dist., Karnataka State.* (*Min. of Commerce*).

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* Institutions under Indian Council of Medical Research. † Institutions under Central Government, Ministry of Health and Family Planning.

Coir Research Institute, Central, *P.O. Kalvoor, Alleppey* 688001, *Kerala State.* (*Min. of Commerce*).

Crops Research Institute for the Semi Arid Tropics, International, 1-11-256, *Begumpet, Hyderabad* 500016.

Design Institute, National, *Paldi, Ahmedabad*-380007 (*Min. of Ind. Dev.*).

Family Planning Institute, *L*-17, *Green Park, New Delhi* 110016. (*Min. of H. & F. Plg.*).

Family Planning Training & Research Centre, 382, *Sardar Vallabhbhai Patel Rd., Bombay* 400004. (*Min. of H. & F. Plg.*).

Fishing Organisation, Deep Sea, *Botawala Chambers, Sir P. M. Rd., Bombay* 400001. (*Min. of Agri.*).

Food Laboratory, Central, 2, *Kyd St., Calcutta* 700016. (*Min. of Agri., Dept. of Food*).

Forensic Science Laboratory, Central, 30, *Gora Chand Rd., Calcutta* 700014. (*Min. of Home Aff.*).

Forest Research Centre, *Coimbatore* 641002, *Tamil Nadu.* (*Min. of Agri.*).

Forest Research Institute and Colleges, *New Forest P.O., Dehra Dun* 248001, *Uttar Pradesh.* (*Min. of Agri.*).

Forest Research Laboratory, *Malleswaram P.O., Bangalore* 560003. (*Min. of Agri.*).

Foundry & Forge Technology, National Institute of, *Dhurwa P.O., Ranchi* 834004, *Bihar.* (*Min. of Edu.*).

Geodetic and Research Branch, *Survey of India, P.O. Box* 77, *Dehra Dun* 248001, *Uttar Pradesh.* (*Min. of Edu.*).

Geological Survey of India, 27, *Jawaharlal Nehru Rd., Calcutta* 700001. (*Min. of Petro. & Chem.*).

Grain Storage Research and Training Centre, *Meerut Rd., P.O. Box* 10, *Hapur, Uttar Pradesh.* (*Min. of Agri., Dept. of Food*).

Handloom Technology, Indian Institute of, (1) *Foulkes Compound, Salem*-636001, *Tamil Nadu;* (2) *Chowkaghat, Varanasi* 221002, *Uttar Pradesh.* (*Min. of Ind. Dev.*).

Housing Wing, Rural, *Punjab Engineering College, Chandigarh,* 160001 (*Min. of Works & Hsg.*).

Housing Wing, Rural, Research-cum-Training Centre, *Birla Vishvakarma Mahavidyalaya, Vallabh Vidyanagar, Kaira District, Gujarat.* (*Min. of Works & Hsg.*).

Machine Tool Institute, Central, *Tumkur Rd., Bangalore* 560022. (*Min. of Ind. Dev.*).

Man-power Research, Institute of Applied, *Indraprastha Estate, Ring Rd., New Delhi* 110001. (*Min. of Home Aff.*).

Meteorological Department, India, *Meteorological Office, Lodi Rd., New Delhi* 110003. (*Min. of T. & C. Avn.*).

Meteorology, Institute of Tropical, *Ramdurg House, Poona University Rd., Pune* 411005. (*Min. of T. & C. Avn.*).

Mines, Indian Bureau of, *New Secretariat Bldg., Nagpur* 440001. (*Min. of Steel & Mines.*).

Observatory, Astrophysical, *Kodaikanal* 3, *Tamil Nadu.* (*Min. of T. & C. Avn.*).

Observatory, Central Seismological, *Health Home, Shillong* 793005, *Assam* (*Min. of T. & C. Avn.*).

Observatory, Colaba and Alibag, *Colaba, Bombay* 400005. (*Min. of T. & C. Avn.*).

Oil & Natural Gas Commission, Research & Training Institute, 9, *Kaulagarh Rd., P.O. Box* 40, *Dehra Dun,* 248001, *Uttar Pradesh.* (*Min. of Petro. & Chem.*).

Orthopaedics, Central Institute of, *Safdarjang Hospital, New Delhi,* 110016. (*Min. of H. & F. Plg.*).

Photo-Interpretation Institute, Indian, *No.* 113, *Rajpur Rd., Dehra Dun* 248001, *Uttar Pradesh.* (*Min. of Edu.*).

Pineapple Fibre Research Centre, *Moodbidri, Mysore State.* (*Min. of Ind. Dev.*).

Population Studies, International Institute of, *Govandi Station Rd., Chembur, Bombay* 400071.

Power Research Institute, *P.O. Box* 1042, *Bangalore* 560012. (*Min. of Irr. & Power*).

Productivity Council, National, 38, *Golf Links, New Delhi* 110003. (*Min. of Ind. Dev.*).

Radio, Office of the Research Engineer, All India, *Indraprastha Estate, New Delhi* 110001. (*Min. of Inf. & Br.*).

Railways, Research, Designs and Standards Organisation, *Ministry of Railways, Alambagh, Lucknow*-226005.

Rice Research Station, Central Saline, *C/o Central Rice Research Inst., Canning Town P.O.,* 24-*Parganas, West Bengal.*

Rubber Research Institute of India, *Kottayam* 686009, *Kerala.* (*Min. of Commerce*).

Salt Test Laboratory, Government, *Antop Hill. Wadala, Bombay* 400031. (*Min. of Petro. & Chem.*).

Science Education, Department of, *National Institute of Education, Mehrauli Rd., New Delhi* 110006. (*Min. of Edu.*).

Sericultural Research and Training Institute, Central, *Shanthivilas, Nazarbad, Mysore* 570001. (*Min. of Commerce*).

Small Industries Extension Training Institute *Yousufguda, Hyderabad* 500038. (*Min. of Ind. Dev.*).

Soil Mechanics Research Station, Central, *Exhibition Grounds, American Pavilion, Mathura Rd., New Delhi* (*Min. of Irr. & Power*).

Standard Institution, Indian, 9, *Bahadur Shah Zafar Marg, New Delhi* 110001 (*Min. of Ind. Dev.*).

Sugar Institute, National, *Kalimpur, Kanpur,* 208001, *Uttar Pradesh* (*Min. of Agri., Dept. of Food*).

Telecommunication Research Centre, *Eastern Court Compound, Janpath, New Delhi* 110001 (*P. & T. Dept.*).

Test House, National, 11/1 *Judges' Court Rd., Alipore, Calcutta* 700027 (*Min. of Ind. Dev.*).

Village Industries, Jamnalal Bajaj Central Research Institute for, *Maganwadi, P.O. Box* 4, *Wardha,* 442001, *Maharashtra* (*Min. of Ind. Dev.*).

Water & Power Research Station, Central, *Khadakwasla P.O., Pune* 411024 (*Min. of Irr. & Power*).

Zoological Survey of India, 34, *Chittaranjan Ave., Calcutta* 700012 (*Min. of Edu.*).

ATOMIC ENERGY

HISTORY AND DEVELOPMENT

AN Atomic Energy Commission was set up on August 10, 1948, under the terms of Atomic Energy Act passed in 1948, with Dr. H. J. Bhabha as its Chairman. The Commission's main aims were :

(*a*) Prospecting for atomic minerals ;

(*b*) Development of such minerals on an industrial scale ;

(*c*) Research work connected with the release of atomic energy for peaceful purposes ;

(*d*) Training of technical personnel to this end ;

(*e*) And to foster fundamental research in nuclear sciences in its own laboratories, universities, and other institutions in India.

However, it was not until August 3, 1954 that the Government of India launched a full-fledged atomic energy programme and the Department of Atomic Energy was created.

Rare minerals section, which formed the nucleus of the present Atomic Minerals Division, was taken over from the geological survey of India in 1949. The Indian Rare Earths Limited was registered as a company on August 18, 1950 and its rare earths plant at Alwaye, Kerala, went into production in August, 1952.

AEC decided to build India's first research reactor (of the swimming pool type) APSARA, in March 1955 and it reached criticality on August 4, 1956. APSARA and the Atomic Energy Establishment at Trombay, near Bombay were formally inaugurated by the Prime Minister, Pandit Jawaharlal Nehru, on January 20, 1957. In the meantime work was taken up on a 40 MW research reactor, CIRUS with Canadian assistance under the Colombo Plan. CIRUS attained criticality on July 10, 1960 and was first operated at full power on October 16, 1963. India's third research reactor, ZERLINA, was designed, engineered and built entirely by Indian personnel. It attained criticality on January 14, 1961.

A Radio Isotope Division was started at Trombay in April 1957. It produced first samples of radio isotopes in February 1958. A decision to set up a Uranium Metal Plant and a Fuel Element Fabrication Facility also at Trombay was taken in May 1956 and the first ingot of nuclear pure uranium metal was produced on January 30, 1959. Plans to build India's first atomic power station at Tarapur were announced in 1960. By 1961 the construction of a Plutonium Plant at Trombay had started.

The responsibility for expansion of medical facilities and research in cancer and several other diseases with the help of radio isotopes etc. at Tata Memorial Hospital and Indian Cancer Research Centre was taken over by the Department, in February 1962. On August 9 in the same year, the Nangal Heavy Water Plant went into production. A new Atomic Energy Act came into force in September 1962. The decision to build a second atomic power station at Rana Pratap Sagar (Kota), and the third one at Kalpakkam, Tamil Nadu was also taken during this year. In December, 1963, an agreement was signed with Canada regarding the Rajasthan Atomic Power Station. In August, 1964 the Plutonium plant was completed and in May of the same year, a contract was signed with the International General Electric Company of United States regarding Tarapur Station. The year 1964 marked the end of phase II (extending between 1956-1964) which saw the development of know-how and technology for the country's nuclear power programme.

The Indian Rare Earths Limited took over the operations of the atomic minerals sand industry in January, 1965 and in June of the same year the Atomic Energy Commission decided to set up a Nuclear Fuel Complex at Hyderabad to make the country self-sufficient in fuel elements required for future power reactors. In April, 1966, the construction of a Food Irradiation and Processing Laboratory commenced at Trombay with a view to use atomic energy for the preservation of foods of economic importance. The Atomic Energy Establishment at Trombay was renamed as 'Bhabha Atomic Research Centre' (BARC) in memory of the late Dr. Bhabha on January 12, 1967. The Electronics Corporation of India Ltd., was established at Hyderabad in April of the same year. Another industrial unit under the Department, the Uranium Corporation of India Limited, was formed in October 1967 with the responsibility for the development of the uranium mine and mill at Jaduguda, Bihar. Both the mine and the mill were commissioned during the next year. In November 1968, the Atomic Energy Commission decided to set up the second heavy water plant at Kota in Rajasthan.

It was decided that research and development regarding plutonium-based reactors will be conducted at the Reactor Research Centre to be set up at Kalpakkam in Tamil Nadu. An agreement between the Department of Atomic Energy and the Commissariat A l' Energie Atomique (CEA), France, regarding the 15 MWe Fast Breeder Test Reactor which will form a part of the Reactor Research Centre was signed on April 11, 1969. Both the reactors of the Tarapur Atomic Power Station reached criticality by the end of February, 1969 and the plant commenced commercial production of nuclear power on October 3, 1969. The Tarapur Atomic Power Station was dedicated to the nation by the Prime Minister on January 19, 1970. Contracts were signed with the French Consortium GELPRA in September 1969 and April 1971 for the setting up of two further heavy water plants at Vadodara in Gujarat and Tuticorin in Tamil Nadu respectively. Some of the units of the Nuclear Fuel Complex at Hyderabad were also commissioned during 1971. With an aim to develop the application of atomic energy in agriculture, a Nuclear Agricultural Laboratory was inaugurated by the Prime Minister in New Delhi on November 2, 1971. The Zero Energy Fast Reactor *Purnima* entirely designed, engineered and constructed by BARC scientists attained criticality on May 22, 1972. The first unit of the Rajasthan Atomic Power Station reached criticality in August of the same year. The decision to set up the country's fourth nuclear power station at Narora in Uttar Pradesh was also announced in 1972.

The first unit of the Rajasthan Atomic Power Station went into commercial operation in Dec. 1973. Construction work on the Narora project was initiated in Jan. 1974. ISOMED, the radiation sterilisation plant for medical production, was also commissioned during Jan. 1974.

Nuclear Explosion : The country conducted its first peaceful underground nuclear explosion at Pokhran in the Rajasthan desert on May 18, 1974.

Future Programme : Commissioning by 1985 of 2700 MWe nuclear power ; design and construction of prototype and commercial fast breeder reactors ; augmentation of heavy water production ; development of gas centrifuge and other technologies for uranium enrichment ; and all round strengthening of support facilities. This includes development of the Narwapahar uranium mines and facilities for extraction of uranium from low-grade ores, creation of adequate facilities for reprocessing irradiated fuel and for recovery of valuable by-products, and widespread application of isotopes in industry, for food preservation, medicine, agriculture and research.

Administrative set-up : The development and control of atomic energy in India is regulated by the Atomic Energy Act (Act No. 33 of 1962) and the Department of Atomic Energy handles all business of the Government of India relating to atomic energy and functions of the Central Government under the Act.

The Atomic Energy Commission is responsible for (*a*) formulating the policy of the Department of Atomic Energy, (*b*) preparing the budget of the Department for each financial year and getting it approved by the Government, and (*c*) implementing Government's policy in all matters concerning atomic energy.

The scientific and technical work of the Department is carried out by the Atomic Minerals Division and the Bhabha Atomic Research Centre at Trombay near Bombay and the Reactor Research Centre, Kalpakkam, Tamil Nadu.

Atomic Minerals Division : The Atomic Minerals Division of the Department of Atomic Energy has been carrying out exploration for minerals prescribed under the Atomic Energy Act in different parts of India. One of the results of this effort has been the discovery of a number of uranium deposits in the Thrust Belt in Singhbhum district, Bihar. Of these the uranium deposit at Jaduguda is already being mined by the Uranium Corporation of India Limited, a public sector undertaking of the Department of Atomic Energy. The mill attached to the mine treats 1,000 tonnes of ore per day. The other important deposits being developed underground are those of Narwapahar and Bhatin, while a third deposit which promises to be a large-sized one and which has been recently discovered and is currently under investigation is that at Turamdih. A number of comparatively smaller deposits occur at Bagjata and Kanyaluka. The occurrences of uranium in the mountainous terrain of Himachal Pradesh and Uttar Pradesh as well as indication of uranium in Madhya Pradesh are under investigation. A few deposits are also known in Rajasthan but they are comparatively small. Significant uranium values have also been found in certain parts of the phosphorite deposit at Mussoorie.

The present overall indicated and inferred reserves of uranium are estimated at about 63,500 short tons (57,727 tonnes) of uranium oxide in addition to about 12,600 short tons (11,455 tonnes) of uranium oxide estimated to be present in monazite in coastal and inland placer sand deposits in India.

Some of the beach sand deposits of Kerala, Tamil Nadu and Orissa as well as inland placer deposits of Bihar and West Bengal contain monazite, ilmenite, leucoxene, rutile, sillimanite, kyanite etc. The reasonably assured resources of monazite are of the order of 3·8 million tonnes estimated to contain about 0·343 million tonnes of thorium oxide.

The estimated reserves of ilmenite in the country are placed at 133·76 million tonnes. Some of the important beach deposits in Kerala and Tamil Nadu are being exploited for ilmenite and other associated minerals.

Bhabha Atomic Research Centre, Trombay : The Bhabha Atomic Research Centre (BARC), is India's principal centre for research in and development of atomic energy for peaceful purposes.

The centre with a staff of nearly 10,998, composed of 2,544 Scientific, 4,480 technical, 1,287 administrative and 1,908 general maintenance and auxiliary staff is the largest single scientific establishment in the country.

Every year about 150 science and engineering graduates are recruited and given intensive training at the centre for one year prior to being absorbed in the various projects of the Atomic Energy Department.

RESEARCH REACTORS

Apsara : The first nuclear research reactor in Asia, outside the USSR, attained criticality on August 4, 1956. It is an enriched uranium light water moderated and cooled pool type reactor. The reactor is designed for a maximum power level of 1 mw.

A number of experimental facilities have been provided in the reactor which has proved to be extremely useful for fundamental and applied research in basic sciences and engineering, radioisotope production and training of personnel.

Cirus : (formerly known as CIR) is India's second research reactor, built as a joint Indo-Canadian project under the Colombo Plan. The reactor attained criticality on July 10, 1960.

Cirus is a natural uranium heavy water moderated and light water cooled high flux research reactor with a terminal power of 40,000 kw. The reactor is used for basic and applied research in physics, chemistry, biology, metallurgy, reactor technology and for the production of large quantities of high activity radioisotopes. It is also used for the training of personnel for future reactor programmes.

Zerlina : is India's third research reactor. It is a zero energy reactor for lattice investigations and new assembly studies. The reactor attained criticality on January 14, 1961 with a natural uranium — heavy water loading. The reactor is being extensively used for physics experiments and studies of uranium — heavy water lattices.

R-5 Project : A 100 MW thermal reactor using natural uranium and heavy water is to be built.

Purnima: is the country's first experimental fast reactor. It uses plutonium oxide as fuel. It attained criticality on May 22, 1972.

Besides being used for the training of personnel in the operation of plutonium fuelled fast reactors, experiments will be carried out with this facility to measure certain nuclear parameters which will enable scientists to design and develop the core of the pulsed Fast Reactor to be constructed near Kalpakkam, Tamil Nadu, as a part of the Reactor Research Centre.

The natural uranium fuel elements for **Cirus** and **Zerlina** and the plutonium oxide fuel elements for **Purnima** are fabricated in Trombay.

Fuel Element Fabrication Facility : This facility went into operation in June 1959. It now fully meets the fuel element requirements of both **Cirus** and **Zerlina.** The present capacity of this plant is about 30 to 40 tonnes of fuel elements per year. The nuclear grade uranium is produced in the uranium metal plant at Trombay.

A good deal of development work has been carried out in the existing facility for the fabrication of power reactor fuel elements, which consist of sintered uranium oxide pellets clad in zircaloy.

A beginning has also been made in the development and production of thorium oxide and thorium metal fuel elements in the facilities at **BARC.**

Plutonium Plant : The plutonium plant went into operation at Trombay in 1964, for processing the fuel elements irradiated at **Cirus.** It is being modified and expanded to process the spent fuels from the R-5 reactor also. The plant basically meant for the separation and recovery of plutonium and fission products from irradiated uranium, has given the necessary data and experience on the basis of which a bigger fuel reprocessing plant is being built at Tarapur. This is expected to be completed by the end of 1975.

A pilot-plant has also been designed, built and being successfully operated at Trombay for reprocessing thorium oxide and metal fuel elements irradiated at **Cirus** to recover uranium-233, the future nuclear fuel.

Electronic Instruments and Components : Electronics is vital to the development of nuclear energy. Reliable instrumentation is essential for the safe operation of reactors, remote sensing and assessment of highly radioactive materials, and identification of isotopes. The Electronics Division of BARC is designing and fabricating nuclear and other instrumentation required for the Indian atomic energy programme. The control systems for the research reactors **Apsara** and **Zerlina** were fabricated by this group. It has designed equipment for contamination and area monitoring, and health equipment for **Cirus,** fuel reprocessing plant and the radiological laboratories at Trombay. The Division has also fabricated and supplied instruments for the environmental laboratory at Tarapur. Besides, it has supplied a number of nuclear instruments for universities, and other institutions using radiation sources, and radioisotopes.

Isotope Laboratory : A large number of radiopharmaceuticals, biochemicals and labelled organic and inorganic compounds are being produced in this laboratory. Iridium-192 radiography units and gamma irradiators containing cobalt-60 are now being manufactured and supplied to various hospitals and industrial units. At present some 350 radioactive products are made available for a wide variety of uses in India, and some are exported abroad. The sale value of radioisotopes, equipment and services rendered totalled Rs. 5·60 million including Rs. 0·23 million in exports during the year 1973-74.

Food Technology : Radiation provides an effective means for food preservation through control of food-borne spoilage organisms, eradication of pests in stored grains and by retarding physiological processes such as ripening and sprouting. The programmes of research at Trombay in this field are aimed at developing procedures for preservation of foods of economic importance using gamma radiation. Promising observations relate to (*i*) radiation disinfestation of stored grains, (*ii*) inhibition of sprouting in onions and potatoes, (*iii*) delayed ripening of mangoes and bananas, and (*iv*) extension of shelf-life of sea foods.

Radiation has also been used to induce mutations. Several mutants of economic importance have been obtained in rice and groundnut, and these have been tried in various parts of the country and have given excellent results.

For carrying out research in food technology, Trombay has a 5.66 hectares cultivable area for experimental crops, a 2.42 hectare field with the gamma source, controlled growth chambers and a glass house.

Health and Safety : The Department of Atomic Energy is responsible for country-wide radiation safety. The work on health and safety aspects of all installations carrying out atomic energy operations is managed by BARC in accordance with the requirements of the Atomic Energy Act, 1962. This is achieved by posting safety staff for supervision and advice, along with operational staff to cover both radiation and industrial aspects of safety at all installations. Through a country-wide net work of stations, measurements of fall-outs from nuclear tests are also being made. Samples of milk, food, rain water etc. collected from all over the country are being analysed for their radioactivity.

The Division of Radiological Protection is conducting a country-wide film badge service for persons working with radiation sources. The service now covers nearly 1,975 institutions and some 32,000 radiation workers. The Directorate also conducts a one year post-graduate course in radiological physics. It does research and development in fields such as hospital physics, radiation dosimetry and instrumentation, radiation applications and radiation bio-physics. The Division is responsible for the formulation and promulgation under the Atomic Energy Act of various rules and regulations relating to radiation safety.

Central Workshops : A manufacturing facility for the production of specialised equipments and apparatus for the country's atomic energy programme, which cannot be readily undertaken by the commercial under-takings in India, have been set up at Trombay. The workshops are fabricating equipment for the Rajasthan Atomic Power Project and other projects, resulting in savings in cost and foreign exchange. The workshops also undertake the fabrication of the two-stage "Centaure" rockets for the Indian Space Research Organisation.

Other Facilities : The facilities at BARC include a 400 channel analyser for the analysis of nuclear data, a 5·5 Mev. Van de Graaff accelerator, a H-400 Honeywell computer system, a large size Russian Computer BESM-6. A 224 cm Variable Energy Cyclotron is being set up near Calcutta by BARC as a national facility. The Technical Physics Division at BARC designs and fabricates vacuum equipment, mass spectrometers, electron beam and sintering furnaces for handling nuclear materials and different types of solid state radiation detectors. A Seismic Station has also been set up at Gauribidanur, near Bangalore to record earthquakes and to detect nuclear explosions in the atmosphere as well as underground.

INDUSTRIAL OPERATIONS

Electronics Corporation of India Ltd., Hyderabad : Formed in April 1967, the corporation took over the activities of the Electronics Production Unit of the Bhabha Atomic Research Centre with a view to producing on a commercial scale a variety of nuclear instruments, control equipment, electronic components etc. developed at BARC. The company has successfully developed a fully transistorised closed circuit TV system and is marketing a commercial TV set developed by it. The company earned a net profit of Rs. 11·34 million in 1972-73.

Rare Earths Plant, Alwaye and Thorium Plant, Trombay : See under "Government Industrial Undertakings".

Uranium Corporation of India Ltd. : This company formed in October, 1967, has its registered office in Jaduguda, Bihar. It is responsible for developing the uranium mine and for the operation of the uranium mill at Jaduguda. The mill at present treats about 1,000 tonnes of ore per day. During 1972-73 it earned a net profit of Rs. 1·72 million.

Mineral Sand Industry : Indian Rare Earths Ltd. is currently operating two plants, one at Manavalakurichi, Tamil Nadu and another at Chavara, Kerala for the separation of ilmenite, monazite, rutile, zircon, leucoxene, garnet and sillimanite.

Heavy Water Plants: The first heavy water plant at Nangal is producing 14·1 tonnes per annum of nuclear grade heavy water since August, 1962. A second plant with a capacity of 100 tonnes of heavy water per year is being built at Kota, Rajasthan. Three other plants, one, at Vadodara with a capacity of 67 tonnes per year, another at Tuticorin with a capacity of 71 tonnes per year and a third at Talcher, Orissa with a capacity of 63 tonnes per year are under construction. All the plants are expected to be commissioned by mid 1976.

Nuclear Fuel Complex, Hyderabad: Based on the development work carried out at BARC, a nuclear fuel complex has been set up at Hyderabad for the fabrication of fuel elements for nuclear power reactors under construction and being planned. This facility covers the entire range of operations from raw material concentrates to finished fuel element assemblies and other reactor fuel components. The complex consists of a uranium oxide plant, a zirconium plant, a ceramic fuel fabrication plant and a special materials plant. A stainless steel seamless tube plant and a titanium pilot plant are also being set up.

NUCLEAR POWER

The 420 MWe nuclear power station at Tarapur is being operated as a commercial undertaking since Oct. 3, 1969. The station consists of two reactors of the boiling water type, and was built by the General Electric Company of U.S.A. under a turn-key contract. Nuclear power began to flow from the station when it became operational at 8-15 p.m. on April 1, 1969. By February, 28, 1974, the station had generated over 7,583 million units of electricity.

Two other atomic power stations are under construction in the country. The Rajasthan Atomic Power station (being built with Canadian assistance) at Rana Pratap Sagar near Kota will have a capacity of 430 MWe. The first unit of this station attained criticality on August 11, 1972. It is now operating at a power level of about 150 MWe. It commenced commercial operation on Dec. 16, 1973.

The other station being built at Kalpakkam near Madras will have a capacity of 470 MWe. The Kalpakkam station is being built entirely by Indians with about 80 per cent indigenous content. A Reactor Research Centre is being set up near the Madras Atomic Power Station. It will carry out studies in fast reactor technology. It will also have as an experimental facility a pulsed fast reactor.

The construction of the Fourth nuclear power station at Narora in U.P. was inaugurated by the Prime Minister Mrs. Indira Gandhi, on Jan., 13, 1974. It will have two atomic reactors of 235 m.w. each and will deliver 440 m.w. electricity to the northern power grid when completed.

Nuclear Research Establishments: The Tata Institute of Fundamental Research is the National Centre for advanced study and fundamental research in nuclear science and mathematics and consists of a school of physics and a school of mathematics.

The Institute is the largest centre for cosmic ray research in India. Its school of mathematics is internationally reputed and recognised. Its areas of research activity include molecular biology, microwave engineering, solid state electronics and computer technology, besides fundamental research in nuclear physics, geophysics, chemical physics and solid state physics. It houses, as a national facility, an advanced and modern computer CDC 3600-160A. It also has a one MeV Cascade Generator. A large radiotelescope is also in operation at Ootacamund for lunar occultation studies of radio sources.

Another important institution conducting research in nuclear physics is the **Saha Institute of Nuclear Physics,** Calcutta.

A high altitude research laboratory is functioning at an altitude of 2,700 metres at Gulmarg in Kashmir.

Two other units under the administrative control of the Department are the **Radiation Medicine Centre** and the **Tata Memorial Centre** in Bombay.

Considerable fundamental research in nuclear sciences is also being conducted at various universities and research institutions all over India with financial assistance from the Department of Atomic Energy.

IMPORTANT DATES

1948

August — Atomic Energy Commission (AEC) set up.

1954

January — AEC details to set up Atomic Energy Establishment, Trombay. **August** — Department of Atomic Energy created.

1955

March — AEC details to build Apsara. **August** — Thorium Plant at Trombay goes into production.

1956

April — Formal agreement for CIRUS signed in New Delhi. **May** — Decision to set up Uranium Metal Plant and Fuel Element Fabrication Facility Project (Faggots) taken. **August** — Apsarabecomes critical.

1957

January — Atomic Energy Establishment at Trombay inaugurated by the then Prime Minister, Shri Jawaharlal Nehru.

1958

August — Planning Commission approves the building of India's first atomic power station at Tarapur.

1959

January — Uranium Metal Plant produces the first ingot of nuclear pure uranium metal.

1960

February — First lot of ten fuel elements produced at Fuel Element Fabrication Facility. **March** — AEC decides to build an Uranium Mill at Jaduguda. **May** — Erection of ZERLINA begins. **July** — CIRUS reaches criticality. **August** — Site for the first atomic power station (Tarapur) announced.

1961

January — ZERLINA reaches critically. **March** — Construction of Plutonium Plant begins.

1962

August — Decision to build second atomic power station at Rana Pratap Sagar taken. Heavy Water Plant at Nangal goes into production. **September** — Atomic Energy Act 1962 comes into force. **December** — Kalpakkam selected as site for third atomic power station.

1963

August — Indo-US bilateral agreement regarding Tarapur Atomic Power Station.

1964

February — Plutonium Plant completed. **May** — Signing of contract with International General Electric Company regarding Tarapur Station. **August** — First irradiated fuel rod from CIRUS charged into the Plutonium Plant. **October** — Work starts on the construction of the Tarapur Atomic Power Station.

1965

January — Formal inauguration of the Plutonium Plant by the then Prime Minister, Mr. Lal Bahadur Shastri. **June** — AEC decides to set up the Nuclear Fuel Complex at Hyderabad. **December** — Agreement between India and Canada regarding the second unit of the Rajasthan Atomic Power Station.

1966

April — Construction of the Food Irradiation and Processing Laboratory (FIPLY) at BARC begins.

1967

January — Atomic Energy Establishment Trombay renamed Bhabha Atomic Research Centre. **April** — Electronics Corporation of India Limited established. **October** — Uranium Corporation of India Ltd., formed.

1968

May — Uranium Mill at Jaduguda commissioned for commercial production. **November** — Uranium Mine at Jaduguda commissioned. AEC decides to set up a Heavy Water plant at Kota, Rajasthan.

1969

February — Both the reactors of Tarapur Atomic Power Station become critical. **April** — Agreement between DAE and Commissariat a l' Energie Atomique (CEA). France regarding the Fast Breeder Test Reactor at Kalpakkam, Tamil Nadu. **June** — Variable Energy Cyclotron (VEC) Project starts. **August & September** — Two agreements with the French consortium, GELPRA. for the Vadodara Heavy Water Plant. **October** — Work commences on the Vadodara Plant. Tarapur Atomic Power Station attains full commercial operation.

1970

January — Tarapur Atomic Power Station dedicated to the nation by the Prime Minister, Shrimati Indira Gandhi. **August** — Work on Kota Heavy Water Plant begins. **September** — Uranium 233 successfully separated from irradiated thorium for the first time at Trombay.

1971

April — Contract signed with the French consortium, GELPRA, for the Tuticorin Heavy Water Plant. **May** — Work commences on Tuticorin Plant. Zirconium Oxide Plant at Nuclear Fuel Complex, Hyderabad, commissioned. Sanction given by the Government of India for the second unit of the Madras Atomic Power Station. **September** — Zirconium Sponage Plant at NFC commissioned. **October** — Radiation Protection Regulations promulgated. **November** — Nuclear Agricultural Laboratory inaugurated in New Delhi by Shrimati Indira Gandhi.

1972

April — AEC decides to set up the fifth Heavy Water Plant at Talcher, Orissa. **May** — Zero Energy Fast Reactor at Trombay goes operational. **August** — First reactor of Rajasthan Atomic Power Plant attains criticality.

1973

December — First Unit of Rajasthan Atomic Power Station goes into commercial production.

1974

January — Construction work for Narora Nuclear Power Station is inaugurated. Plant for radiation sterilisation of medical products commissioned. **May** — First peaceful underground nuclear explosion conducted in Rajasthan desert.

SPACE RESEARCH

THE Indian Space Programme started around the year 1962 when the **Indian National Committee for Space Research** (INCOSPAR) was formed by the Department of Atomic Energy of the Government of India. In 1969 the **Indian Space Research Organisation** (ISRO) was created by the Department of Atomic Energy for the purpose of planning, managing and executing the nation's growing activities in Space Science, Space Technology and Space Applications.

The Government of India established a **Space Commission** in June, 1972, to advise the Government on all policy matters regarding the nation's space activities and simultaneously, a Department of Space was also set up for the financial, inter-departmental, inter-ministerial and international support to the space programmes undertaken by ISRO.

The Space Commission, the Department of Space and the Indian Space Research Organisation have their **Headquarters in Bangalore. Professor S. Dhawan** is the Secretary to the Government of India in the Department of Space and the Chairman of the Space Commission and the Indian Space Research Organisation.

A complex of establishments of the Indian Space Research Organisation has grown near Trivandrum, which is engaged in the development of sophisticated space technology. Named after the late Dr. Vikram Sarabhai, the **Vikram Sarabhai Space Centre** (VSSC) near Trivandrum includes the Space Science and Technology Centre, the Thumba Equatorial Rocket Launching Station, the Rocket Propellant Plant, the Rocket Fabrication Facility and the Propellant Fuel Complex.

The **Thumba Equatorial Rocket Launching Station** is a United Nations sponsored rocket range, used to launch rockets for conducting experiments using the sounding rockets with the objective of improving the understanding of the equatorial ionosphere, electrojet, properties of the neutral upper atmosphere and the X-ray omissions from galactic X-ray sources.

The Space Science and Technology Centre is engaged in research and development work in the field of propellants, sounding rockets, satellite launching vehicles, control and guidance systems, on-board and ground electronics to support rockets and satellite missions.

The Rocket Propellant Plant and the Rocket Fabrication Facility have been commissioned for the production of solid propellant blocks and various kinds of rockets respectively. The Propellant Fuel Complex will produce some of the special materials required for the processing of propellants.

The **Satellite Launching Station** is being built up in Sriharikota near Nellore District of Andhra Pradesh. On the Sriharikota island, in addition to the launching complex all supporting establishments for the satellite launching station are being set up. Some of them include the test and evaluation facilities planned for the production of solid propellants and the static test and evaluation complex for making static tests of rocket motors at sea level and at simulated high altitudes.

The **Space Applications Centre,** Ahmedabad, is engaged in various areas of work in space applications.

The centre has undertaken work on satellite communications, remote sensing of earth resources and weather studies by meteorological satellites. The main project of this centre is the Satellite Instructional Television Experiment, a collaborative India-USA experiment which aims at demonstrating the use of satellite television for national development. This project is expected to be followed up by a domestic satellite system for nationwide television and tele-communication.

The fabrication work of the Indian Scientific Satellite is in progress in Bangalore where a 300 kg satellite is being constructed. This wholly Indian designed and fabricated satellite is expected to be launched by the end of 1974 from the territory of the Soviet Union with the help of a Soviet launch vehicle.

This satellite, in addition to the satellite systems will carry three scientific experiments for the investigation in the field of Aeronomy, X-ray Astronomy and Cosmic rays.

SOCIAL WELFARE IN INDIA

Among Tribes: To study the problems that affect tribals and to train personnel to work among them the Government of India has set up nine research institutes. These are:

Tribal Cultural Research & Training Institute, Hyderabad, Andhra Pradesh; *Tribal Research Institute*, Shillong, Assam; *Tribal Research Institute*, Ranchi, Bihar; *Tribal Research & Training Centre*, Gujarat Vidyapeeth, Ahmedabad, Gujarat; *Tribal Research & Development Institute*, Bhopal, Madhya Pradesh; *The Tribal Research Institute*, Pune, Maharashtra; *Tribal Research Bureau*, Bhubaneswar, Orissa; *The Tribal Research & Training Institute*, Udaipur, Rajasthan; *Cultural Research Institute*, Calcutta, West Bengal.

The Central Social Welfare Board (Jeevan Deep Bldg., Parliament St., New Delhi 110001): Was set up by the Government of India in August, 1953—to evaluate and sponsor its welfare programmes. Since April 1, 1969, it has been converted to a charitable company.

Chairman of Board: Shrimati Sarojini Vardappan.

The Central Bureau of Correctional Services (Block 1, Wing 7, Ground Floor, R. K. Puram, New Delhi-110022): (*i*) Collects and collates all India crime statistics; (*ii*) formulates policies for crime prevention; (*iii*) promotes research studies, surveys, experiments and training.

The Association for Social Health in India (4-Deendayal Upadhyaya Marg, New Delhi-110001); Set up to eradicate prostitution and other evils related to it.

Social Welfare and Rehabilitation Directorate (Jamnagar House Hutments, New Delhi-110011): Set up to tackle the problems of destitute and deserted women of Delhi and war widows.

Widows: There are 83,340,000 women in the age group 20–24. As many as 300,000 of them become widows each year according to government of India estimates. The government expects to spend Rs. 300 million during the Fourth Plan period to give them relief and assistance.

Destitute Children: According to the 1961 census there were 171,095,000 children in the age group 0–14. By 1974 this figure is expected to become 231,639,000. Planning Commission estimates show 0·5 per cent of these children to be destitutes. This means there are 1·15 million destitute children in the country of whom only 192,000 will be covered for State assistance and relief during the Fifth Plan.

Funds for Research: Funds for research in social work are available from the Indian Council of Social Science Research, New Delhi, the Dept. of Social Security and the University Grants Commission, as well as other foreign bodies such as the Social Rehabilitation Service of the Dept. of Health, Education and Welfare, U.S.A.

SCHOOLS OF SOCIAL WORK

The Tata Institute of Social Sciences, Sion-Trombay Rd., Deonar, Bombay-400088; The Delhi School of Social Work, University of Delhi, University Rd., Delhi-110007; The Madras School of Social Work, Casa Major Rd., Egmore, Madras-600008; Faculty of Social Work, M. S. University of Baroda, Fatehgunj, Vadodara-390002. Department of Social Work, Lucknow University, Lucknow; Institute of Social Sciences, Kashi Vidyapith, Varanasi; The Indian Institute of Social Welfare & Business Management, College Square West, Calcutta-700007; The Institute of Social Service, Nirmala Niketan, 38 New Marine Lines, Bombay-400020; The Bombay Labour Institute, D. Chamarbaughwala Rd., Parel, Bombay-400012; The P. S. G. School of Social Work, P.O., Peelamedu, Coimbatore; The National Institute of Social Sciences, 24 Willington Rd., Richmond Town, Bangalore 560025; The Institute of Social Services, School of Social Work, Mangalore 575001; St. Xavier's Institute of Labour Relations, Jamshedpur 831001; Institute of Social Sciences, University of Agra, Agra 282001; The Department of Sociology and Social Work, Andhra University, Waltair; Department of Labour and Social Welfare, Patna University, Patna; University School of Social Sciences, Gujarat University, Ahmedabad; The School of Social Work, 13-14, Old Sehore Rd., Indore 452001; The Udaipur School of Social Work, Saletia Ground, Udaipur 313001; The Department of Social Work, Sacred Heart College, Thevara, Ernakulam-682003, Kerala; The Institute of Social Work, Rajagiri, Kalamaserry, Alwaye-683104, Kerala. The Xavier Institute of Social Services, St. Xavier's College, Ranchi 834001, Bihar.

Undergraduate Schools: Institute of Social Service, Nirmala Niketan, 38, New Marine Lines, Bombay-400001; Karve Institute of Social Services, Pune; Andhra Pradesh School of Social Work, Red Hills, Hyderabad; Tripude Institute of Social Work, Civil Lines, Sadar, Nagpur 440001; and Visva Bharathi Palliseksha Sadan, P.O. Sriniketan, Dist. Birbhum, West Bengal.

VOLUNTARY AGENCIES

Child Welfare: Balkan-ji-Bari, Juhu Rd., Santa Cruz (West), Bombay-400054; Sneh Sadan, Andheri East, Bombay-400060; Indian Council for Child Welfare, 4, Rouse Ave., New Delhi 110001; Indian Council for Child Education, Sumanas, 39, Edward Elliott Rd., Madras 600004.

Youth Welfare: Y.M.C.A. (5, Russel St., Calcutta-700016); Y.W.C.A. (Parliament St., New Delhi 110001); Bharat Scouts and Guides Association (Regal Bldg., Parliament St., New Delhi 110001); Bharat Sevak Samaj (27-A, Theatre Communication Bldgs., Connaught Place, New Delhi 110001); International Youth Centre & Indian Assembly of Youth (Circular Road, Chanakyapuri, New Delhi-110021); Youth Hostels Association (2, East Park Rd., New Delhi-110005); All India Boy Scouts Association (7, Jungpura, Mathura Rd., New Delhi-110014).

Women's and Family Welfare: All India Women's Conference (C/o Family Planning Association of India, Metropolitan House, D. Naoroji Rd., Bombay-400 001); Family Service Centre (Eucharistic Congress Bldg, 5, Convent Street, Fort, Bombay-400 001) ; National Council of Women in India (Town Hall, Bombay 400001) ; Bombay Mothers and Children Welfare Society (10, B.D.D. Chawl, Delisle Rd., Bombay-400 011) ; Kasturba Gandhi National Memorial Trust (Kasturba Gram, P.O. Indore, Madhya Pradesh).

Health: Tuberculosis Association of India (20, Red Cross Rd., New Delhi-110002); Indian Red Cross Society (20, Red Cross Rd., New Delhi-110002); All India Cancer Prevention Society (Tata Memorial Hospital, Parel, Bombay-400012) ; Akhil Bharat Sharirik Sikshan Maha-Mandal (Tilak Rd., Nagpur 440001, Maharashtra) ; Indian Medical Association (Indraprastha Marg, New Delhi-110001).

Rural Welfare : Bureau of Rural Development Indian Council of Social Welfare (175, D. Naoroji Rd., Bombay-400001); Sarva Seva Sangh (K33-4, Golghar, Varanasi, U.P.) ; India Village Service (I.V.S. House, Marhera, Etah Dist., U.P.).

General Social Welfare : Servants of India Society (Pune-411004) ; Ramkrishna Mission (Belur, Howrah Dist.); Gandhi Memorial Fund (5, Mansingh Rd., New Delhi); Salvation Army (Moreland Rd., Bombay-400008); Friends' Service Unit (1, Upperwood St., Calcutta-700016); All India Seva Samiti (Seva Samiti Bldg., Allahabad 211001).

Rural Women's Welfare: Bharatiya Grameen Mahila Sangh (9/104 Jamnagar Hutments, Block II, Mansingh Rd., New Delhi 110011).

Social Education : Indian Adult Education Association (17-B, Indraprastha Marg, New Delhi 110001); Bombay City Social Education Committee (Adarsh Nagar, Worli, Bombay-400025) ; Jamia Milia (Jamia Nagar, New Delhi-110025) ; Literacy House (Lucknow 226001).

Welfare of Under-Privileged Groups : Harijan Sevak Sangh (Kingsway, Delhi 110009).

International Welfare Agencies in India : International Council on Welfare (Regional Office for South East Asia and Western Pacific, 175, D. Naoroji Rd., Bombay-400001) ; Ford Foundation (32, Ferozeshah Rd., New Delhi 110001) ; World Health Organisation (S.E.A. Office, Indraprastha Estate, Ring Rd., New Delhi 110001); Rockefeller Foundation (20/39, Diplomatic Enclave, Kautilya Marg, New Delhi 110021) ; International Labour Organisation, Indian Branch (7, Sardar Patel Marg, New Delhi-110001) ; International Union for Child Welfare (Consultant for Far East Asia, 4, Rouse Ave., New Delhi-110001) ; United Nations International Children's Fund (UNICEF House, 11, Jor Bagh, New Delhi ; 110003) United Nations Educational, Scientific and Cultural Organisation (40, B. Lodi Estate, New Delhi-110003) ; Food and Agriculture Organisation, UNO (1, Ring Rd., Kilokri, New Delhi 110014) ; Cleveland International Programme for Youth Leaders and Social Workers Inc. (12, Hailey Rd., New Delhi 110001) ; The American Peace Corps in Delhi (5, Ring Rd., Kilokri, New Delhi-110014).

THE SALVATION ARMY

For better administration the country is divided into 5 territories each under a Territorial Commander and one smaller command.

The work done is evangelical, social, medical and educational. The five territories are :

North Eastern India : Territorial Headquarters, The Salvation Army, 37 Lenin Saranee, Calcutta 700013.

Madras and Andhra : Territorial Headquarters, The Salvation Army, 1C, Ritherdon Rd., P.O. 453, Vepery, Madras-600007.

South East India : Territorial Headquarters, The Salvation Army, Vetturnimadam, Nagercoil 629003.

South West India : Territorial Headquarters, The Salvation Army, Kowdiyar, Trivandrum-695003.

Western India : Territorial Headquarters, The Salvation Army, Moreland Road, Byculla, Bombay-400008.

INSTITUTIONS FOR THE HANDICAPPED IN INDIA

INSTITUTIONS FOR THE BLIND

ANDHRA PRADESH

Andhra Blind Model High School, Rayapet, Narsapur 534275; **Disabled Blind Children's Home & School,** Anandanasamaj Bldg., Amravati Rd., Guntur 522002 ; **Govt. School for the Blind,** Cuddapah 516001; **Govt. High School for the Blind,** Basanthi Haveli, Salar Jung Estate, Hyderabad 500002 ; **"Jeevana Jyothi",** C.S.I. Vidyanagar, Via. Kondapalli, Penapaka Post, Krishna Dist. ; **Lutheran School for the Blind,** Narasaraopet 522601 ; **National Assoc. for the Blind** (Andhra Pradesh State Branch), 2-2-25, Azim Bagh Amberpet, Hyderabad 500007 ; **Society for Helping the Handicapped,** 190/A, Usmansahebpet, Nellore 524002 ; **Vocational Rehabilitation Centre for the Physically Handicapped,** Central Training Institute, Vidyanagar, Hyderabad 500007.

ASSAM

All Assam Federation of the Blind, C/o Paul & Co., Dhaccapatty, Nowgong 782001 ; **Assam Andha Sishu Seva Samiti,** P.O. Bihupuria, North Lakhimpur ; **Sreemanta Shankar Mission Blind School,** Nowgong 782001 ; **Assam Blind Assoc.,** Jorhat 785001.

BIHAR

Bihar Rajya Netrahin Kalyan Sangh, Park Rd., Kadam Kuan, Patna 800003 ; **Blind Relief Society,** De Nobili School, P.O. Fuel Research Inst., Dhandbad Dist. ; **Govt. School for the Blind,** Patna 800001 ; **Blind School,** Home for the Homeless, Muzaffarpur 842001 ; **Netraheen Chhatra Vidyalaya,** Mundichak, Bhagalpur 812001 ; **Premadevi Blind School,** Topkhana Bazar, Monghyr 811201 ; **Shree Kameshwari Priya Poor Home's Dr. K. D. Arora Blind High School,** Darbhanga 846004 ; **Shri Adinath School for the Blind,** Arrah ; **St. Michael's School for the Blind,** P.O. Box No. 1, Ranchi 834001 ; **Sur Vihar** (Home for Blind Boys), C/o Central Administrative Office, Tata Iron & Steel Company Ltd., Jamshedpur 831001.

DELHI

All India Blind Relief Society, F-Block, 2nd Lajpatnagar, New Delhi 110024 ; **Bharat Blind School,** 510-A, Circular Rd., Shahdara, Delhi 110032 ; **Bharatiya Educational Cultural Welfare Society for the Blind,** Telewada, Shahdara, Delhi 110032 ; **Blind Relief Assoc.,** Kitchlew Marg, New Delhi 110003 ; (Including J.P.M. School for the Blind). **Blind School Welfare Society,** 96, Panchkuin Rd., New Delhi 110001 ; **Delhi Public Library (Braille Section),** 425, Lakshmibai Nagar, New Delhi 110005 ; **Govt. School for Blind Boys,** Coronation Rd., Kingsway

Camp, Delhi 110009 ; **Institution for the Blind,** Panchkuin Rd., New Delhi 110001 ; **National Assoc. for the Blind,** (Delhi State Branch), A-15, Nizamuddin East, New Delhi 110013 ; **National Federation of the Blind,** H-4/5, Model Town, Delhi 110009 ; **National Society for the Prevention of Blindness,** C/o Department of Ophthalmology, All-India Institute of Medical Science, Ansari Nagar, New Delhi 110016 ; **Rashtriya Virjanand Andh Kanya Vidyalaya,** New Rajendra Nagar, Shankar Rd., New Delhi 110060 ; **Sant Parmanand Blind Relief Mission,** 18, Alipore Rd., New Delhi 110006 ; **Sri Adinath School for Blind,** Dhampra Arrah. 802301 ; **Training & Rehabilitation Centre for the Blind,** C-20, Model Town, Delhi 110009 ; **Vocational Rehabilitation Centre for the Physically Handicapped,** C/o I.T.I. Campus, Pusa, New Delhi 110012.

GUJARAT

Adult Training Centre for the Blind, near ATIRA, Vastrapur Rd., Ahmedabad 380015 ; **Ambaben Maganlal Andhjanshala,** Race Course, Athwa Lines, Surat 395001 ; **Andha Bhudaya Mandal, Kalyan Kendra,** C/o Shantibai Upadhayay, 11, Pathik Society, Ahmedabad 380013 ; **Andh Kanya Prakash Grih** (Light House for Blind Girls), Memnagar, Navrangpura, Ahmedabad 380009 ; **Andh Sarvodaya Mandal,** Dhebar Rd., Rajkot 360002 ; **Andhjan Pustakalaya,** C/o Kanjibhai Jamnadas Popat, Anand Bhuvan, Uganda Rd., Porbunder 360575 ; **Baroda Assoc. for the Blind,** Mahajans Lane, Raopura, Vadodara 390001 ; **Blind Men's Association,** near ATIRA, Vastrapur Rd., Ahmedabad 380015 ; **Blind Men's Welfare Assoc.,** Thakarshi Tanti Bldg., 5 Manhar Plot, Rajkot 360001 ; **Blind Welfare Assoc.,** Bhuj, 370001 ; **Blind Physiotherapist Assoc.,** Bajrang Krupa, L.I.C. Society, Rajkot 360001 ; **Govt., Blind School,** Camp, Bhuj 370001 ; **Govt., School for the Blind,** Madan Zanpa Rd., Vadodara 390001 ; **Gujarat Blind Relief & Health Assoc.,** P.O. Bochasan, Kaira Dist. ; **Gujarat Rajya Nayanjyot Raksha Samiti,** Opp. R. C. High School, Dr. Tankaria Rd., Ahmedabad 380001 ; **Keshovnagar Secondary School for the Blind,** Keshovnagar Society, Main Hall, Behind Municipal School, Sabarmati, Ahmedabad 380005 ; **Krishnakumarsinhji School & Home for the Blind,** College Rd., Takkteshwar Plot, Bhavnagar 364001 ; **M. P. Shah Govt. School for the Blind,** M. Gandhi Rd., Junagadh 362001 ; **M. T. Doshi Andh Vidyalaya,** Near Kasturba Society, Surendranagar 363001 ; **Mohanbahen Bhavanilal Jain Anadh Jan Vidyalaya,** Dohad ; **National Assoc. for the Blind** (Gujarat State Branch), Near A.T.I.R.A., Vastrapur Rd., Ahmedabad 380015 ; **School for the Blind,** Ashram Rd., Navrangpura, Ahmedabad 380009 ; **School for the Blind,** Visavadar, Junagadh Dist. ; **Sheltered Workshop for the Blind,** Jamnagar, 361001 ; **Shri Bharatiya Pragna Chakshu Gurukul,** Porbunder 360575 ; **Shri M. K. School for the Blind,** Taliya Bag., Palanpur 385001 ; **Shri Pragnyachakshu Vividhlakshi Vikas Kendra,** Amreli 364601 ; **Shri V. D. Parekh Andh Mahila Vikas Grih,** Near Swaminarayan Gurukul, Dhebar Rd., Rajkot 360002 ; **Tata Agricultural & Rural Training Centre for the Blind,** Phansa.

HARYANA

Adarsh Netraheen Vidyalaya, Charkhi Dadri, Mohindergarh Dist. ; **Andh Kanya Pathshala,** Multani Chawk, Hissar 125001 ; **Blind Relief Section,** District Red Cross Society, Hissar 125001 ; **Govt. Institute for the Blind,** Panipat 132103 ; **Pragatisheel Navyuvak Netraheen Kalyankari Sangh,** Dwara Sanchalit, Hariyana Shishu Sadan, Hodal ; **S. D. Institute for the Blind,** Ambala 133001 ; **Training Centre for the Adult Blind,** Sonepat 131001.

JAMMU & KASHMIR

Abhedananda Home, Home for Blind and Handicapped, Modern School for Integrated Education, Silk Factory Rd., Srinagar 190001 ; **Akhil Bharatiya Netrahin Sangh and Residential School for the Blind,** Ved Mandir, Jammu 180001 ; **Blind Welfare Centre,** Sopor.

KARNATAKA

Belgaum District Assoc. for the Blind, Kamal Kutir, 170, Belgaum Cantt. 590001 ; **Blind Relief Assoc.,** Bijapur 581601 ; **Divine Light School for the Blind,** Whitefield, Bangalore 560001 ; **Govt. School for the Blind,** Gulburga 585101 ; **Govt. School for the Blind,** Hubli, 580020 ; **Govt. School for Deaf and Blind Boys,** Mysore 570001 ; **Jagadguru Sri Shivarathreswara Maha Vidya Peetha,** Ramanuja Rd., Mysore 570004 ; **Bharateeya Grameena Mahila Sangha,** No. 1555, 39th Cross, 4th Block T, Bangalore 560011 ; **Mahila Vidya Peetha,** Hubli 580020 ; **Mysore Rajya Netre Rakshana Sahayak Samiti,** Kusbad Galli, Hubli 580020 ; **Mysore State Welfare Assoc. for the Blind,** Kamala Mansion, 143, Infantry Rd., Bangalore 560001 ; **School for the Blind,** Institute of Social Service, Department of Social Work, Roshni Nilaya, Fr. Muller Rd., Mangalore 575002 ; **Shree Ramana Maharishi Academy for the Blind,** 1189(35th) "C" Cross, Jayanagar, 'T' Block, Bangalore 560011 ; **Shri Ramakrishna Work-House for the Blind,** 18, 1st Block East, Jayanagar, Bangalore 560011.

KERALA

Centre for the Blind, P. O. Mankada, Malappuram Dist., **Govt. School for the Blind,** Kasargod 670121 ; **Govt. School for the Blind,** Olessa, Kottayam 686001 ; **Govt. School for the Blind, Deaf and Dumb,** Trivandrum 695001 ; **Kerala Blind Welfare Assoc.,** Mankadapallipuram, Angadipuram ; **Kerala Federation of the Blind,** Trivandrum 695017 ; **Light To the Blind,** Christu Giri, P.O. Sreenivasapuram, Varkala ; **National Assoc. for the Blind** (Kerala State Branch), C/o Marikar Motors Ltd., Trivandrum 695001 ; **School for the Blind,** P.O. Thottumughan, Alwaye 683105 ; **School for the Blind,** Kunnamkulam, Talapally, Trichur Dist. ; **School for the Blind, Deaf and Dumb,** Assisi Mount Neerpara, P.O. Vadakara Thalayolaparamba.

MADHYA PRADESH

Blind Relief Assoc., 72/13-14, South T.T. Nagar, Bhopal 462001 ; **Deaf, Dumb and Blind School,** Bada Ravala, Juni Indore, Opp. Gita Mandir, Indore 452004 ; **Govt. Blind, Deaf and Dumb School,** Harsh Bhawan, Juniline Ward, Bilaspur 495001 ; **Govt. Blind, Deaf and Dumb School,** Keshar Bungalow, Bhopal 462001 ; **Govt. Home for Deaf, Dumb and Blind Children,** 102, Cherital, Jabalpur 482001 ; **Madhav Andh Ashram,** Jhansi Rd., Lashkar, Gwalior 474001 ; **Mahesh Drishtiheen Kalyan Sangha,** 170, Netaji Subhas Marg, Indore 452001; **M. P.Welfare Assoc. for the Blind,** 84, Veer Savarkar Market, Indore 452001 ; **M. P.Welfare Assoc for the Blind,** Ujjain Branch, C/o Apangashram Mahankal Rd., Ujjain 456001 ; **M. P. Welfare Assoc. for the Blind,** Khandwa Branch, C/o Shri Krishna Rao Mandloi Hariganj, Khandwa 450001 ; **Vocational Rehabilitation Centre for the Physically Handicapped,** Corporation New Market, Opp. Nav Bharat Press, Napier Town, Jabalpur 482001.

MAHARASHTRA

Andh Vidya Mandir, P.O. Wardha Maneri, Taluka Arvi, Wardha; **Bassein Blind Relief Assoc.,** Eye Hospital, Azad Rd., Bassein, Thana Dist.; **Blind Men's Assoc.,** 81-A, Jaldarshan, L. Jagmohandas Marg, Bombay 400036; **Blind Relief Assoc.,** Botawala Bldg., 475-83, Kalbadevi Rd., Bombay 400002; **Blind Relief Assoc.,** South Ambasari Rd., Nagpur 440003 (including Blind Boys Institute & Sheltered Workshop for the Blind); **Blind Welfare Assoc.,** Housing Colony, Amravati 444602 (including School for the Blind); **Blind Welfare Centre,** Shankar Bldg., Mastan Tank Cross Lane, Bombay 400008; **Dadar School for the Blind,** 160, D. Phalke Rd., Bombay 400014; **Govt. School for the Blind,** Bhandara 441904; **Govt. School for the Blind,** Latur, Osmanabad Dist.; **Govt. School for the Blind,** Nandvi, Tal. Mangaon, Kolaba Dist.; **Govt. School for the Blind,** Nasik 422001; **Haji Allarakhia Sonawala Andh and Anath Stree Ashram,** 37, Gilbert Hill, Dadabhai Rd., Andheri, Bombay 400058; **Happy Home and School for the Blind,** Dr. A. Besant Rd., Worli, Bombay 400018; **Industrial Home for Blind Women,** 160, D. Phalke Rd., Dadar, Bombay 400014; **Krishanlal Jalan Charity Trust,** 339, Kalbadevi Rd., Bombay 400002; **Maharogi Seva Samiti,** Warora, P.O. Anandvan, Chandrapur Dist.; **M. N. Banajee Industrial Home for the Blind,** 280, S. Vivekanand Rd., Jogeshwari, Bombay 400060; **National Assoc. for the Blind,** Jehangir Wadia Bldg., 1, M. Gandhi Rd., Bombay 400001; **National Assoc. of the Instructors of the Blind,** C/o Mr. K. N. K. Jussawalla, "C" Poonam Apartments, Flat 202, Shiv Sagar Estate, Worli, Bombay 400018. **National Christian Council,** Nagpur 440001; **NAB-Lions Home for Aging Blind,** "Highlands", Bombay Poona Rd., Lonavla; **NAB-Mata Lachmi Nursery for the Blind,** 218, East Sion Rd., Bombay 400022; **N. S. D. Industrial Home for the Blind,** 52, B.D.D. Chawl, Worli, Bombay 400018; **Poona Blind Men's Assoc.,** 82, Rasta Peth, Pune 411002; **Poona School & Home for the Blind,** 14-17 Koregaon Park, Pune 411001; **Pragati Andh Vidyalaya,** 18, Narayan Niwas, Ghantali Colony, Nowpada, Thana 400602; **Ramabai Mukti Mission,** Khedgaon, Pune Dist.,; **Rashtriya Sahakari Shikshan Prasarak Mandal Ltd.,** School for the Blind, Chalisgaon 424101; **Swami Vivekanand Medical Mission,** Sanjivani Hospital, Virar, Thana Dist.; **School for the Blind,** Bodadi (Both Rd.,), Taluka Kinwat, Nanded Dist.; **School for the Blind,** Deopur, Dhulia; **Victoria Memorial High School for the Blind,** Tardeo Rd., Bombay 400034; **Vocational Rehabilitation Centre for the Physically Handicapped,** C.T.I. Campus, Sion-Trombay Rd., Kurla, Bombay 400070; **Workshop for the Blind,** Dr. A. Besant Rd., Prabhadevi, Bombay 400025.

ORISSA

Red Cross School for the Blind, Near City Campus, P.O. Berhampur, Dist. Ganjam; **School for the Blind,** Orissa State Council for Child Welfare, Raj Bhuvan, Bhubaneshwar 751001.

PONDICHERRY

Blind Relief Assoc., 193, M. Gandhi Rd., Pondicherry 605001; **Govt. School for the Blind,** Pillaicavadi, P.O. Kalapet, Pondicherry 605001.

PUNJAB

Bharatiya Andh Hitakarini Sabha, 2212-13, Gurudwara Bldg., Inside Lohgarh Gate, Amritsar 143001; **Blind School,** 541, Model Town, Jullundur 144001; **Dist. Council for the Welfare of the Handicapped, Home for the Blind,** 1, Maheshchand Library Rd., Ferozepur 152001; **Home for the Blind & Disabled,** Malerkotla; **Govt. Institute for the Blind,** Ludhiana 141001; **Institution for the Blind,** (Andh Vidyalaya), Amritsar 143001; **School for the Blind,** Amar Ashram, The Lower Mall, Patiala 147001; **Surma Singh Ashram's Institute for the Blind,** G.T. Rd., Amritsar 143001; **Vocational Rehabilitation Training Centre** (for Blind and Handicapped), Gopal Lodge, Issa Nagari, Ludhiana 141001; **Vocational Rehabilitation Centre for the Blind,** CTI Campus, Gill Rd., Ludhiana 141001.

RAJASTHAN

Govt. Residential School for the Blind Boys, Bikaner 334001; **Govt. School for the Blind,** Adarshnagar, Ajmer 305001; **Netraheen Seva Sangh,** 95, Adarshnagar, Ajmer 305001; **Pheroze & Noshir Merwanji Rehabilitation Centre for the Blind,** "East View", Mount Abu; **Pragya Chakshu Shikshan Sansthan,** (Andh Vidyalay), Udaipur 313001; **Rajasthan Netrahin Kalyan Sangh,** Farosoia Market, Bapu Bazar, Jaipur 302003.

TAMIL NADU

Bishop Diehl Rehabilitation Home for the Blind, Transquebar House Compound, Tiruchirapalli 620001; **Blind Relief Assoc.,** Fort Round Rd., Vellore 632001; **C.S.I. School for the Blind,** Irenepuram Post, Kanyakumari Dist.; **Govt. School for the Blind,** Poonamalle, Chengleput Dist.; **Govt. School for the Blind,** Sivanganga, Ramanathapuram Dist.; **Govt. School for the Blind,** Shivpet, Salem 636002; **Govt. School for the Blind,** Cuddalore 607001; **Govt. School for the Blind,** Sir T. Desikachariar Bldgs., Puthur, Tiruchirapalli 620001; **Indian Evangelical Lutheran Church School for the Blind,** I.E.L.C. Compound, Bargur, Dharmapuri Dist.; **Light Engineering Project for the Adult Blind,** C-22, Ind. Estate, Guindy, Madras 600032; **Madras Christian College,** (Students' Service for the Blind), Tambaram 600045; **National Assoc. for the Blind,** Tamil Nadu State Branch, 4, Hunters Rd., Vepery, Madras 600007; **ORBIT (Organisation for Rehabilitation of the Blind in Tiruchi),** Asian Travels, United India Bldg., Tiruchirapalli 620001; **School for the Blind,** Palayamkottai, Tirunelveli 2; **School for the Blind,** Podanur, Coimbatore Dist.; **School for the Blind,** Swedish Mission Hospital, Tiruppattur 635601; **School for the Blind & Deaf,** Cathedral Post, Madras 600006; **Society for Aiding the Handicapped,** "Kamakoti", 37, VI Main Rd., R.A. Puram, Madras 600028; **St. Louis Institute for the Deaf and Blind,** Canal Bank Rd., Gandhinagar, Madras 600020; **Students Assoc. for the Blind,** Tamil Nadu Rehabilitation Centre for the Blind, Madras Medical College, Madurai 625020; **Telc Home & School for the Blind,** Moses Gnanabaram Eye Hospital, Coimbatore 641001; **"The Blind" Society,** "Jamadhagni", 10, Telegraph Office Lane, Ootacamund 643001.

TRIPURA

Institute for the Visually Handicapped, P. O. Bimanagarh, Agartala 799001.

UTTAR PRADESH

Ahmedi School for the Blind, Civil Lines, Aligarh 202001; **Andh Vidyalay,** Hariharnath Shastri Smarak Bhavan, Kanpur 208001; **Blind School,** Bhadaini, Varanasi 221001; **Blind Welfare Society,** B1/152, Assi Ghat, Varanasi 221005; **Govt. School for the**

Blind, Banda 210001; **Govt. School for the Blind,** Gorakhpur 273001; **Govt. School for the Blind,** Pirpur House, Butler Rd., Lucknow 226001; **Hanuman Prasad Potdar Andh Vidyalaya,** Durgakund, Varanasi 221005; **Indumati Andh Shishu Sharanalaya,** P.O. Tehri 249001; **Kashi Seva Samiti,** Kabir Chaura, Varanasi 221001; **Kunwarlal Singh Industrial School for the Blind,** Kacheri Rd., Mainpuri 205001; **Netra Vahin Kalyan Sangh,** 9-C, Civil Lines, Gorakhpur 273001; **Netra-Vihin Hitkari Sangh,** 58/4, Birhana Rd., Kanpur 208001; **National Centre for the Blind,** P.O. Box 41, Rajpur Rd., Dehra Dun 248001 (Including Central Braille Press, Model School for Blind Children, National Library for the Blind and Training Centre for the Adult Blind); **Rotary Blind School,** Muzaffarnagar 251001; **Saraswati Badif Kalyan Kendra,** Sitapur 261001; **School for the Blind, Deaf and Dumb,** 110/241, Nehru Nagar, Kanpur 208001; **School & Home for the Blind,** Nainital 263001; **School for the Blind attached to the Eye Hospital,** Sitapur 261001; **Sharp Memorial School for the Blind,** Rajpur Rd., Dehra Dun 248001; **Shree Ajara Nand Andh Vidyalaya,** Sapt Sarovar, Hardwar 249401.

WEST BENGAL

Assoc. for the Prevention of Blindness, 94, Chittaranjan Ave, Calcutta 700012; **Blind Boy's Academy,** Ramakrishna Mission Ashram, P.O. Narendrapur, 24 Parganas; **Blind Persons' Assoc.,** Bapujinagar Society, Jadavpur, Calcutta 700032; **Calcutta Blind School,** DH Rd., Behala, Calcutta 400034; **Govt. School for the Blind,** Directorate of Social Welfare, Nilkuthi (Megh Mandir), Cooch Behar 736101; **Light House for the Blind,** 174, S.P. Mukherjee Rd., Calcutta 700026; **National Assoc. for the Blind,** West Bengal State Branch, C/o Union Paper & Board Mills Ltd., 18, N. Subhas Rd., Calcutta 700001; **School for the Blind,** Swedish Mission, Cooch Behar 736101; **St. Mary Scott Home for the Blind,** Kalimpong 734301; **Welfare Society for the Blind,** 6, Old Post office, St., Calcutta 700001.

INSTITUTIONS FOR THE DEAF AND DUMB

ANDHRA PRADESH

A. P. Assoc. of the Deaf, H. No. 16-8-933/1/3, N. Sagar Rd., Malakpet, Hyderabad 500036; **Govt. High School for the Deaf,** Kakinada 533001; **Govt. School for the Blind & Deaf,** Malakpet Jubilee P.O., Hyderabad 500036; **Training Centre for the Adult Deaf,** Malakpet, Hyderabad 500036.

ASSAM

Assam Deaf & Dumb Assoc., Ambari, Gauhati 781001; **Govt. Bhawari Debi Sarawgi Deaf & Dumb School,** Kahilipara, Gauhati 781005.

BIHAR

Arrah Mook Badhir Vidyalaya, Mahadeva Rd., Arrah 802301; **Bihar Deaf & Dumb Assoc.,** 92, A. Kumar Rd., Rajendra Nagar, Patna 800016; **Kameshwari Priya Poor Home's Deaf & Dumb School,** Darbhanga 846004; **Khitish Deaf & Dumb School,** Niwaranpur, P.O. Hinoo, Ranchi Dist.; **Patna Deaf & Dumb School,** Mahendru, Patna 800001; **Society for the Deaf of Chotanagpur,** Nibaranpur, P.O. Hinoo, Ranchi Dist.

DELHI

All India Deaf & Dumb Society, 79, Kamla Market, Asaf Ali Rd., New Delhi 110001; **All India Federation of the Deaf,** 39, Theatre Communication Bldg., Connaught Place, New Delhi 110001; **All India Sports Council of the Deaf,** 38-A, Theatre Communication Bldg., Connaught Place, New Delhi 110001; **Balwantrai Mehta Vidya Bhawan,** Lajpat Bhawan, Lajpat Nagar, New Delhi 110024; **Delhi Foundation of Deaf Women,** C/o 24, Theatre Communication Bldg., Connaught Place, New Delhi 110001; **Govt. Lady Noyce School for the Deaf,** 2, Feroze Shah Kotla, New Delhi 110001; **Photography Institute for the Deaf,** 38, Theatre Communication Bldg., Connaught Place, New Delhi 110001; **Printing Press Institute for the Deaf,** Jhandewalan Extn., New Delhi 110055; **Tailoring Training Centre for the Deaf Girls,** 92, Kamla Market, New Delhi, 110001.

GUJARAT

Ahmedabad Behara-Munga Mitra Mandal, C/o Shri R. C. Shah, 7, Bharati Society, Ellis Bridge, Ahmedabad 380001; **Deaf, Dumb & Blind School,** Opp. Hathi Khana Kalyangram, Junagadh, 362001; **Deaf & Dumb School,** P.O. Kachholi, Surat Dist.; **Deaf & Dumb School,** Madan Zampa Rd., Vadodara 390001; **Jashraj Rajpal Deaf-Dumb School,** Luhar Chakla, Mandvi-Kutch; **Khimchand L. Deaf & Dumb School,** Vidya Nagar, Near Collector Bungalow, Bhavnagar 364001; **Muk-Badhir Mitra Mandal,** Desai Sheri, Ghadiali Pole, Vadodara 390001; **School for Blind, Deaf, Dumb & Crippled Children,** Mandvi-Kutch; **School for the Blind, Deaf & Dumb,** Opp. State Bank of Saurashtra, Bhavnagar 364001; **School for the Deaf,** Pilajiganj, Mehsana 384001; **School for Deaf Mutes,** Ashram Rd., Navarangpura, Ahmedabad 380009; **Shri & Smt. Chh. Sha Virani School for the Deaf,** Dhebar Rd., Rajkot 360002; **Shri S. P. K. Kothari Multipurpose School for the Deaf,** P.O. Vijalpur, via Navasari, Bulsar Dist.

HARYANA

Haryana Welfare Society for the Deaf & Dumb, Kothi No. 650, Chandigarh 160017; **School & Welfare Centre for the Deaf & Dumb,** I.T.I., Mehrauli Rd., Gurgaon 122001.

JAMMU & KASHMIR

Deaf & Dumb School, Abhedanand Home, Ram Bagh, Silk Factory Rd., Srinagar 190001.

KARNATAKA

Assoc. of the Deaf, 9/4, Uttaradi Mutt Bldg., Basavanagudi, Bangalore 560001; **Deaf & Dumb School,** Notified Area, Dandeli, North Kanara Dist.; **Municipal Deaf & Dumb Institute,** Bangalore 560001; **Mysore Deaf & Dumb Assoc.,** 'B' Hostel, Room No. 22, West Coast Paper Mills Ltd., Bangur Nagar, Dandeli; **School for the Deaf,** Station Bazar, Gulbarga 585101; **School for the Deaf & Blind Boys,** Tilak Rd., Mysore 570001.

KERALA

Govt. School for the Blind, Deaf & Dumb, Bhaktivilas, Trivandrum 695001; **Govt. School for the Blind, Deaf & Dumb,** Trichur Rd., Kannamkulam, Trichur Dist.; **Govt. School for the Deaf Mutes,** Kanniyampuram, P.O. Ottapalam, 679101; **School for Deaf Children,** Tiruvalla 689101.

MADHYA PRADESH

Asha Niketan, Private Sector E/6, Bhopal 462006; **Deaf Dumb & Blind School,** Bada Ravala, Juni Indore, Opp. Gita Mandir, Indore 452004; **Deaf & Dumb Institute,** Krishnapura, Indore 452001; **Deaf & Dumb School,** Billaspur 495001; **Free Institution for Blind, Deaf & Dumb,** Shiv Vilas Place, Indore 452001; **Govt. Deaf School,** Rewa 486001; **M. P. Deaf & Dumb Welfare Society,** Jiwajiganj, Laskar, Gwalior 474001; **Saurashtra Deaf & Dumb School,** Bhopal 462001; **School for the Blind & Deaf Mute Children,** Near Boat House, Bhopal 462001; **School for Blind & Deaf Mutes,** 23, Martand Chowk, Indore 452001; **School for the Deaf & Blind,** 102, Cherital, Jabalpur 482001; **School for Deaf Mute Children,** Near Raja Gajra Medical College, Gwalior 474001; **State Home for Adult Deaf & Dumb,** Chhawani, House No. 16, Indore 452001; **Welfare Assoc. for the Deaf,** 166, Subhas Marg, Indore 452001.

MAHARASHTRA

Bharat Muk Vidyalaya, Gandhi Bag, Nagpur 440002; **Bhonsla Deaf & Dumb School,** North Ambasari Rd., Nagpur 440001; **Bombay Deaf Centre,** C/o St. Stanislaus High School, Bandra, Bombay 400050; **Bombay Deaf & Dumb Institute,** Kakadwadi, Girgaon, Bombay 400004; **Bombay Deaf & Dumb Society,** 140, Princess St., Bombay 400001; **Bombay Institution for the Deaf Mutes,** 33, Nesbit Rd., Mazagon, Bombay 400006; **Central Institution for the Deaf,** Central Court Matibai St., Agripada, Bombay 400008; **Deaf Centre,** C/o St. Mary's High School, Mazagaon, Bombay 400010; **Deaf & Dumb School,** Station Rd., Thana 400601; **Education Audiology & Research Society for the Deaf Children,** 67, Nepean Sea Rd., Bombay 400006; **Govt. School for the Deaf,** Gondhalpada Post Veshvi, Alibag, 402201; **Govt. School for the Deaf,** Akola, 444001; **Govt. School for the Deaf,** Jinsi, Nagsem Housing Society, Aurangabad 431001; **Indian Deaf Society,** C/o Bharda New High School, Waudby Rd., Bombay 400001; **Institute for Handicapped in Hearing,** Pandhara Rd., Miraj Rd., Miraj 416410; **Maharashtra Deaf & Dumb, Welfare Assoc.,** 425, Narain Peth, Pune 411002; **Model Deaf & Dumb Children School & Home,** 165, D Railway Lines, Sholapur 413001; **Prof. Date's School for Deaf Mutes,** Thakurdwar, Bombay 400002; **Stephen's School for the Deaf,** 15, Dadyseth Rd., Bombay 400007; **Vinay Kumar Ramniwas Ruia Muk Badhir Vidyalaya,** C/o Tilak College of Education, Tilak Rd., Pune 411001; **Vishnu Sikshan Prasarak Mandal's Deaf & Dumb School,** 1520 Shivaji Peth 'A' Ward, Kolhapur 416001.

ORISSA

Crafts Training Centre for the Deaf, Plot No. 118, Shaheed Nagar, Bhubaneswar 751007; **Muk Badhir Vidya Bhavan,** Bhubaneswar 751001; **School for the Blind, Deaf & Dumb,** Bhubaneswar 751007.

PUNJAB

Deaf & Dumb Organisation, E/R 127, Pucca Bagh, Jullundur 144001; **Punjab School for the Deaf & Dumb,** Burton Park, G. Y. Rd., Jullundur 144001; **Punjab School for the Deaf & Dumb,** 87, Kapurthala Rd., Jullundur 144001; **School for the Deaf & Dumb,** S. Kishan Singh Kamboj Hostel, Lower Mall, Patiala, 147003.

RAJASTHAN

Badhir Vidyalaya for the Deaf, Kutchery Rd., Ajmer 305001; **Rajasthan Badhir Sabha,** 352, Raja Park, Jaipur, 302001; **Rajasthan Deaf & Dumb School,** Ratangarh, Bikaner Dist.; **School for the Deaf,** Anasagar Circular Rd., Todar Mal Marg, Ajmer 305004; **Seth Anandilal Poddar Institute for Deaf & Dumb,** J. Nehru Rd., Jaipur 302004.

TAMIL NADU

Assoc. of Parents of Deaf Children, Kamakoti, 35-A, Sixth Main Rd., R. A. Puram, Madras 600028; **Coimbatore Deaf & Dumb Assoc.,** 153, Okkiliar St., Coimbatore 641001; **C. S. I. School for the Deaf,** 148, Santhome High Rd., Madras 600004; **C. S. I. School for the Deaf,** Kottaram, Kanya Kumari Dist.; **Deaf & Dumb School,** Ambassamundram 627401; **Deaf School,** Manamadurai, Ramnathapuram Dist.; **Florence Swairson School for the Deaf,** Palayamkottai 627002; **Govt. School for the Deaf,** Thanjavur 613001; **I. E. L. C. School for the Deaf,** Ambur, North Arcot Dist.; **Minakshi School for the Deaf,** Madurai, 625001; **Municipal Deaf & Dumb School,** Karaikudi 623001; **Municipal Deaf & Dumb School,** R. S. Puram Post, Coimbatore 641001; **Municipal School for the Deaf,** Teynampet, Madras 600018; **School for the Deaf,** Cathedral P.O., Madras 600006; **Shanti Samarasa Deaf & Dumb School,** Kalyanipuram Silvasilam, Tirunelveli Dist.; **St. Louis Institute for the Deaf & Blind,** Gandhinagar, Adyar, Madras 600020; **Tirunelveli After-Care & Welfare Assoc. for the Deaf & Dumb,** Mildred Cottage, 17 Main Rd., Kulavanigarpuram, Palayamkottai 627002.

UTTAR PRADESH

Bareilly Mook-Badhir Sangh, 256, Beharipur, Daryaiya Gali, Bareilly 243001; **Deaf & Dumb Assoc.,** C/o. Shri Satya Prakash Jindal Oil Mills Owners, Chhota Bazar, Lalkurti, Meerut Cantt. 250001; **Deaf & Dumb Institute,** Mohalla Kachcha Katra, Shahajahanpur 242001; **Deaf & Dumb School,** Faizabad 224001; **Deaf & Dumb School,** Gorakhpur 273001; **Deaf & Dumb School,** Laxmi Gate, Jhansi 284001; **Deaf & Dumb School,** Sadar, Meerut, 250001; **Deaf & Dumb School,** Pilibhit 262001; **Deaf & Dumb School,** D 47/196-97, Rampura, Varanasi 221001; **Gorakhpur Badhir Sabha,** Gorakhpur 273001; **Govt. School for the Deaf & Dumb,** 27, Vijaynagar Colony, Agra 282004; **Govt. Deaf & Dumb School,** Civil Lines, Bareilly 243001; **Govt. Deaf & Dumb School,** Farrukhabad; **Gunge Baharon Ka Vidyalaya,** 104-A/226, Ram Bagh, Kanpur 208001; **Kanpur Deaf & Dumb Assoc.,** C/o Mr. S. N. Puri, 49, Cantt., Kanpur 208005; **Lucknow Deaf & Dumb Assoc.,** 9, Ashok Marg, Lucknow 226001; **Mook Badhir Vidayalaya,** Rai Bareli, 229001; **Nanhi Dunya School for the Deaf,** 18, Kalidas Rd., Dehra Dun 248001; **School for the Deaf,** Aligarh, 202001; **School for Deaf, Dumb and Blind,** 110/26, Nehru Nagar, Kanpur 208001; **School for the Deaf,** Deaf & Dumb School Rd., Aish Bagh, Lucknow 226001; **School for the Deaf,** Sitapur 261001; **U. P. Deaf & Dumb Institute,** No. 4, Malaviya Rd., George Town, Allahabad 211001; **Varanasi Society for the Deaf,** 39 Sigra, Gandhi Nagar, Varanasi 221001; **Voluntary School for the Deaf & Dumb,** Puranimandi, Saharanpur 247001.

WEST BENGAL

Bengal Deaf & Dumb Assoc., 41, B. Sadananda Rd., Calcutta 700026; **Bijaygarh Deaf & Dumb School,** P.O. Jadavpur University, Calcutta 700032; **Calcutta Deaf & Dumb School,** 293, A. P. Chandra Rd., Calcutta 700009; **Deaf & Dumb Institute,** Burdwan 713101; **Helen Keller Memorial Library, Society for the**

Deaf, 125, A. J. Chandra Bose Rd., Calcutta 700014; **Ideal School for the Deaf,** 103, A. P. Chandra Rd., Calcutta 700009; **Jatiya Badhir Sammelan,** Suite 28, CIT Bldgs., Christopher Rd., Calcutta 700014; **Maharani Nilima Prabha Institute for the Deaf & Dumb,** P.O. Khagra, Beharampur 742101; **Manbhum Muk-Badhir Bidyapith,** P.O. Munsif Danga, Purulia Dist.; **Mukavadhir Vidyamandir,** 265/19, G. L. Thakur Rd., Calcutta 700036; **North Calcutta Deaf & Dumb School,** No. 5/3B, Dum Dum Rd., Calcutta 700030; **Oral School for the Deaf Children,** 4B, Short St., Calcutta 70016; **School for the Blind, Deaf & Dumb,** P.O. Suri 731101; **School for the Deaf,** 9th Mille Kalimpong 734301.

INSTITUTIONS FOR MENTALLY RETARDED

BIHAR

The Central Nursing Home for Mental Invalids, Lower Burdwan Camp, Lalpur, Ranchi 834001.

DELHI

Bala Vihar Children Home, 2B/9, Model Town, Delhi 110009; **Model School,** Kasturba Niketan, Lajpat Nagar, New Delhi 110024; **Occupational Therapy Home for Children,** 33C Ranjit Singh Rd., New Delhi 110001; **Occupational Therapy Institute,** 4, Rouse Avenue Lane, New Delhi 110001; **School and Home for Mentally Retarded Persons,** C52, Maharani Bagh, New Delhi 100014; **School for Mentally Deficient Children,** All India Women's Conference Building, 6, Bhagwandas Rd., New Delhi 110001; **Vocational Training Workshop for Mentally Retarded Children,** Child Guidance Clinic, College of Nursing, (Min. of Health), Opp. Lajpat Bhawan, Lajpat Nagar, New Delhi 110049.

GUJARAT

Home for Mentally Deficient Children, Near Jain Tower, Rajkot 360001; **Sharada School for Mentally Retarded Children,** Jamsi Villa, Ashram Rd., Opp. Nehru Bridge, Ahmedabad 380009; **Shishu Kunj,** Near Vithal Wadi, Navrangpura, Ahmedabad 380009.

KARNATAKA

Association for the Mentally Handicapped, No. 8, Ali Akbar Rd., Bangalore 500001.

MAHARASHTRA

Bhagini Seva Mandir, Kumarika Stree Mandal Special Class, Sarojini Rd., Vile Parle, Bombay 400056; **"The Haven" Residential School for Mentally Handicapped Children,** Char Bungalow Rd., Versova, Bombay 400058; **Home for Mentally Deficient Children,** Mankhurd, Bombay 400088; **Home for the Aged and Handicapped,** Untkhana, Medical College Rd., Nagpur 440001; **Jankiram Vidyalaya,** Ram Nivas, Bhalchandra Rd., Matunga, Bombay 400019; **Karunalaya,** St. Xavier's High School, Church Rd., Vile Parle (West), Bombay 400056; **Kasturba Nursery,** Adenwalla Mansion, Chowpatty, Bombay 400007; **Maharashtra State Women's Council,** Town Hall, Bombay 400023; **'Nandanvan' School & Sheltered Workshop for the Mentally Retarded Children,** Matru Seva Sangh, North Ambazari Rd., Sitabuldi, Nagpur 440012; **School for Children in Need of Special Care,** Sewri Hill, Sewri Rd., Bombay 400015; **School for Handicapped, Mentally Retarded Children,** Gujarat Research Society, Sansodhan Sadan, 5th Rd., Khar, Bombay 400052; **School for the Mentally Handicapped,** 'Kamayani', 1187/64, J. Maharaj Rd., Pune 411005; **Shashi Mangalyam,** Opp. Theosophical Colony, 10-11, Juhu Rd., Santa Cruz (West), Bombay 400058.

PUNJAB

Govt. Institute for E.S.N. Children, Dept. for Mentally Handicapped Children, Govt. Post Graduate Basic Training College, Chandigarh 160017.

TAMIL NADU

Bala Vihar, Halls Rd., Kilpauk, Madras 600010.

UTTAR PRADESH

Allahabad Y.M.C.A. Opportunity School for Sub-normal Children, 18, Strachey Rd., Allahabad 211001; **Kashi Vidyapith,** G. C. M. School for Mentally Retarded Children, Varanasi 221001.

WEST BENGAL

Ashutosh Institution, 14, Rahim Ostagar Rd., West of Jadavpur Park, Calcutta 700033; **Bodhi Peet,** 20, Hari Nath Dey Rd., Calcutta 700009; **Institute for the Mentally Deficient,** Lloyd Park, Calcutta 700024.

INSTITUTIONS FOR THE ORTHOPAEDICALLY HANDICAPPED

ANDHRA PRADESH

Aram Ghar, Indian Conference of Social Work, Red Hills, Hyderabad 500001; **Bharat Sevak Samaj** (Mahila Branch), Jagarlamudi, Tenali Taluk, Guntur Dist.; **Crippled Children School and Hostel,** Amravati Rd., Guntur 522001; **Home for the Disabled,** Bansilalpet, Secunderabad 500003; **Home for the Disabled,** Karwan Mangalhat, Hyderabad 500001; **Rani Chandramani Devi Children's Hospital,** Rehabilitation Centre for Handicapped Children, Laxmi Mahal, Vishakhapatnam 530001; **Shanti Ashram** (Hostel for Crippled Children), Waltair.

BIHAR

Benilal Memorial Children's Hospital, P. O. Bairaganie, Muzaffarpur 842001; **The Crippled Children Institute,** Panchbati Hostel, Patna 800003.

DELHI

Indian Association of the Physically Handicapped, 32, Golf Link Rd., New Delhi 110003; **Occupational Therapy Home for Children,** 33C, Ranjit Singh Rd., New Delhi 110001; **Occupational Therapy Institute,** 4, Rouse Avenue Lane, New Delhi 110001.

GUJARAT

Apang Manav Mandal, Behind ATIRA, Ahmedabad 380009; **Home for the Crippled Children,** Vadodara 390001; **School for Crippled Children, Blind, Deaf and Dumb,** Mandvi, Kutch.

HARYANA

Saket, Institute of Orthopaedics & Rehabilitation, Chandimandir, Ambala Dist.

KARNATAKA

Association of the Physically Handicapped, 11, Hennur Rd., Bangalore 560005; **Karuna Griha,** Janapada Seva Trust, Melkote, Mandya Dist.; **Mysore Mahila Vidyapeeth** (Home for the Handicapped Girls), Hubli 580020.

KERALA

CARE Home for Disabled Children, Pallithottom, Quilon 691001; **CARE Home for Disabled Children,** Punkunnam, Trichur 680001.

MADHYA PRADESH

Child Guidance Clinic and Handicapped Children Colony, 102, Cherital, Jabalpur 482001; **Orthopaedically Handicapped Children's Home,** Bungalow No. 6, St. No. 5, Manorama Gunj, Indore 452001.

MAHARASHTRA

Fellowship of the Physically Handicapped, Haji Ali Park, Mahalaxmi, Bombay 400034; **Govt. Home for the Crippled Children,** Kathole Sadan, Ramdaspeth, Nagpur 440001; **Govt. Home for the Crippled Children,** Near Water Post, Aurangabad 431001; **Home for the Aged and Handicapped,** Untkhana, Medical College Rd., Nagpur 440002; **Nagpur Association for Rehabilitation of Children with Orthopaedic Disabilities,** Ramdaspeth, Nagpur 440001; **School for the Bed-ridden Children in the Bai Jerbai Wadia Hospital,** C/o. Tata Institute of Social Sciences, Sion Trombay Rd., Deonar, Bombay 400088; **Society for the Crippled Children,** Children's Orthopaedic Hospital, Haji Ali Park, Mahalaxmi, Bombay 400034; **Society for the Welfare of Physically Handicapped,** Wanori, Pune 411001.

PUNJAB

All-India Pingalwara Society, Amritsar 143001; **Apahaj Ashram,** Burton Park, Jullundur 144001.

TAMIL NADU

Iswari Prasad Dattatreya Orthopaedic and Educational Centre, C/o Andhra Mahila Sabha, No. 3, Adyar Bridge Rd., Madras 600028; **Rotary Club of Kumbakonam,** Kumbakonam 612001; **The Society for the Aid of Handicapped Children,** C/o Stanes High School Premises, Coimbatore 641001; **Society for the Welfare of the Handicapped,** 24, Hills Rd., Egmore, Madras 600008.

UTTAR PRADESH

Handicapped Children's Relief Society, C/o Rotary Club, Rahe Raza, Rampur 244901; **The Handicapped Clinic,** 16, A. P. Sen Rd., Lucknow 226001.

WEST BENGAL

Hospital for Crippled Children, B. T. Road, Bon Hoogly, Calcutta 700035; **Welfare Association for the Physically Handicapped,** 47/1A, Palm Avenue, Calcutta 700019.

INSTITUTIONS SERVING LEPROSY PATIENTS

ANDHRA PRADESH

Bethesda Leprosy Hospital, Narsapur 534275; **Evangeline Booth Leprosy Hospital,** P.O. Box 10, Bapatla 522101; **Gandhi Memorial Leprosy Foundation Unit,** Chilakalapalli, via Bobbili, Srikakulam Dist; **Health Education Unit,** Cuddapah 516001; **Health Education Unit,** Rajahmundry 533101; **Hospital Branch** (Mission), Akividu, W. Godavari Dist.; **Krupapalle Leprosy Home,** Kodur, Cuddapah Dist.; **Leprosy Church,** Tanaku, W. Godavari Dist.; **Leprosy Control Unit,** Chilakalapalli, via Bobbili, Srikakulam Dist.; **Leprosy Home,** Salur Post, Srikakulam Dist.; **Leprosy Home,** Vijayanagaram, 531201; **Leprosy Investigation and Treatment Centre,** Zahirabad, Bidar Dist.; **Srikakulam Leprosy Home,** Ramachandrapuram, E. Godavari Dist.; **State Leprosy Control Officer,** C/o Directorate of Medical Services, Sultan Bazar, Hyderabad 500001; **Victoria Leprosy Hospital,** Dichapalli, Nizamabad Dist.

ASSAM

Leprosy Colony, Santipara, Bongaigaon 783380; **Mary Kirby Berry Memorial Clinic,** Borbheta Jorhat 785001; **Shrimant Shankar Mission,** Nowgong 782001; **Special Leprosy Officer,** C/o A.D.P.H.'s Office, Gauhati 781001.

BIHAR

Bhagalpur Leprosy Asylum, Old Bhagalpur 812002; **Brambi Leprosy Institution,** Brambi, Ranchi 834001; **Gaya Leper Asylum,** Gaya 823001; **Kawakole Block S.E.T. Unit,** Nawada Sub-Division, Gaya; **Kushta Seva Ashram,** Mairwa, Saran Dist.; **Kushta Seva Samiti,** Kapasia, Kawakole, Gaya; **Laman Leprosy Hospital,** Monghyr 811201; **Leprosy Relief Association,** Dhanbad 826001; **Mission to Lepers,** Leprosy Home, Muzaffarpur 842001; **Rajkumari Kushtadham,** Deoghar 814112; **Saldaha Leprosy Colony,** Saldaha, Majul Pahadi, Santal Parganas.

DELHI

Catholic Hospital Association, CBCI Centre, Ashok Place, New Delhi 110001; **Hind Kusht Nivaran Sangh,** Red Cross Rd., New Delhi 110001; **Kushtarogi Seva Samiti,** 15, Hardinge Avenue, New Delhi 110001, **Leprosy Home,** Taharpur 110032.

GUJARAT

Ansuya Leprosy Hospital, Sinor Taluka, Vadodara Dist.; **Anti-Leprosy Association,** Bharuch 392001; **Anti-Leprosy Association,** Vadodara 390001; **Ashram Leprosy Hospital,** Opp. Sardesais, Bilimora; **Gandevi Sahakari Samaj Seva Mandal,** Gandevi, Valsad Dist.; **Kushta Nivaran Dham,** Bhavnagar 364001; **Kushta Nivaran Mandal,** Navsari 396445; **Leprosy Hospital,** Junagadh 362001; **Leprosy Control Units,** Valsad 396001; **Parvatibai Leprosy Infirmary and Lady Wilson Leprosy Clinic,** Surat 395001; **Rev. Sister Agnes Kagrapeth Leprosy Hospital,** Outside Astodia Gate, Ahmedabad 380022; **Shri Menji Pathraj Kushta Nivaran Dham,** Bhavnagar 364001.

HARYANA

Leprosy Home, Ambala 133001.

HIMACHAL PRADESH

Leprosy Centre, Mashobra, Simla 171001; **Leprosy Home and Hospital,** Sabuthu, Simla 171001.

KARNATAKA‡

Central Leprosarium, Magadi Rd., Bangalore 560002; **Hind Kusht Nivaran Sangh,** Mangalore 575001; **Holdsworth Memorial Hospital,** Mysore 570001; **Khangaon Kusht Nivaran Samiti,** Gokak, Belgaum Dist.;

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‡ There is a Leprosy Control Unit at Hole Narsipur and the Unit controls three clinics at (*a*) Algur, (*b*) Kollegal and (*c*) Madapur.

Krupalaya Dispensary, Guledgudd, Bijapur Dist.; **Leprosy Dispensary,** Kasthur, Mangala, Chamarajnagar; **Leprosy Hospital,** Belgaum 590001; **Mrs. Esther Muirhead Leprosy Orgn.,** 10A, Mugrath Rd., Bangalore 560001; **Navajeevan Nilayam,** Vavathur Rd., Bangalore 560001; **Silver Jubilee Leprosy Hospital,** Sankeshvar, Belgaum Dist.

KERALA[*]

Chevayar Leprosy Home, Mission to Lepers, Kozhikode; **Damien Leprosy Institute,** Kozhykully, Trichur Dist.; **Holy Cross Convent,** Kottayam; **Noornad Leprosy Sanatorium,** Noornad; **Poor Leprosy Home,** Green Garden, Shertally Quilon Dist.; **The Salvation Army Evangeline Booth Leprosy Hospital,** Puthencurichi, Trivandrum Dist.

MADHYA PRADESH

Bethesda Leprosy Home and Hospital, Champa, Bilaspur Dist.; **Chandkhuri Leprosy Hospital and Home,** P.O. Baitalpur, Bilaspur Dist.; **Govt. Leprosy Home and Hospital,** Raipur 492001; **Henderson Memorial Leper Hospital,** Dhar; **Leprosy Home and Hospital,** Rajnandgaon, Durg; **Leprosy Home and Hospital,** Shantipur, Raipur Dist.; **Visarjan Ashram,** Anda, Durg.

MAHARASHTRA[†]

Acworth Leprosy Home, Wadala, Bombay 400031; **Anandwan Maharogi Seva Samiti,** Warora, Chanda Dist.; **Dattapur Leprosy Colony,** Amravati Post, Wardha Dist; **Gandhi Memorial Leprosy Foundation,** Hindinagar, Wardha; **Hind Kushta Nivaran Sangh,** Red Cross Bldg., 141, Mint Rd., Bombay 400001; **Kusht Pidit Navjeevan Seva Sangh,** Thana 400601; **Leprosy Hospital,** Poladpur, Kolaba Dist.; **Leprosy Hospital,** Nasik 422001; **Leprosy Clinic,** Alipur, Chanda Dist.; **Leprosy Committee,** 18, Wellesley Rd., Pune 411001; **Leprosy Health Education Unit,** C/o Director of Public Health, Pune 411001; **Leprosy Section,** Skin Dept., K.E.M. Hospital, Parel, Bombay 400012; **People's Medical Hall,** Jaya Mandir, Wardha 442001; **Plastic Surgery Unit,** J.J. Group of Hospitals, Byculla, Bombay 400008; **Richardson Leprosy Hospital,** Miraj 416410; **Skin Dept.,** Sassoon Hospital, Pune 411001; **St. Andrew's Leprosy Clinic,** Kagal, Kolhapur Dist.; **Vidarbha Maharogi Seva Mandal,** Amravati 444601.

MANIPUR

Leprosy Centre, Bishenpur; **Leprosy Centre,** Imphal 795001; **Leprosy Centre,** Tamenglong; **Leprosy Centre,** Thoubal; **Leprosy Hospital,** Kongpokpi.

MIZORAM

Baptist Mission Dispensary, Lungleh 796106.

ORISSA

Hatibany Leprosy Colony, Sambalpur 768001, **Leprosy Asylum,** Baripada 757001; **Leprosy Clinic,** Hatigarh, Balasore Dist.

PUNJAB

Leprosy Home, Palampur, Kangra Dist.; **Leprosy Home and Hospital,** Tarn Tarn 143401.

RAJASTHAN

All Saint's Health Centre, Kherwara, Via Udaipur.

TAMIL NADU

Central Leprosy Teaching and Research Institute, Tirumani, N. Arcot Dist.; **C. S. I. Leprosy Centre,** Wandiwash, N. Arcot Dist.; **Dayapuram Hospital,** Manamadurai, Madurai; **G. D. M. Dispensary,** Kollegal, Coimbatore; **German Leprosy Centre,** Chetpat *via* Polur, N. Arcot Dist.; **Govt. Leprosy Centre,** Polambakam, Madurantakam, Chingleput Dist.; **Hand Research Unit,** Christian Medical College & Hospital, Vellore 632001; **Health Education Unit for Leprosy[§],** Thiruchirapalli Dist.; **Hind Kusht Nivaran Sangh,** 7, Veera Gardens, CIT Colony, Madras 600004; **Leprosy Control Unit,** Arkonam 631001; **Leprosy Control Unit,** Rasipuram, Salem Dist.; **Leprosy Home and Hospital,** Vadathorasalur, Tyagadrug, Chingleput Dist.; **Leprosy Relief, Control and Eradication,** Deenabandhupuram, N. Arcot Dist.; **Leprosy Relief and Control Scheme,** Walajah Taluq, Ranipet, N. Arcot Dist.; **Leprosy Office,** Tirukoilur, S. Arcot Dist.; **Memorial Leprosy Hospital,** Neyyoor Colachel, Kanyakumari Dist.; **Mission Hospital,** Kolanjunai, *via* Saligramam, Ramanathapuram Dist.; **Mobile Dispensary,** Tambaram 600045; **Sacred Heart's Hospital,** Sakkottai, Kumbhakonam 612001; **Schiefflien Leprosy Research Sanatorium,** Karigeri, N. Arcot; **St. Joseph's Leprosy Home,** Tuticorin 628001.

UTTAR PRADESH

Almora Leprosy Home and Hospital, Chandag Heights, Pithoragarh 262501; **Leprosy Hospital,** Faizabad, Motinagar; **Leprosy Hospital,** Naini, Allahabad Dist.; **Leprosy Hospital and Home,** Almora 263601; **Raphael Ryder Cheshire Foundation,** 16, Pritam Rd., Dehra Dun 248001; **State Leprosy Office,** Lucknow 226001.

WEST BENGAL

Gandhi Memorial Leprosy Foundation, Sriniketan, Bolpur 731204; **Leprologist,** 32/1, Radhakanta Jew Street, Shyambazar, Calcutta 700004; **Leprosy Control Work,** 5, Kyd. St., Calcutta 700016; **Leprosy Home,** Purulia 723101; **Leprosy Home and Hospital,** Bankura 722101; **Leprosy Hospital,** Kalimpong 734301; **Leprosy Office,** Health Staff Quarters, Asansol Mines Board, Asansol 713301; **Premanand Leprosy Dispensary,** Calcutta; **S. E. T. Units,** Sriniketan, Bolpur (Clinics under the unit are at (*a*) Sriniketan, (*b*) Bandhalodanga and (*c*) Sarbawandpur).

FAMILY PLANNING IN INDIA

INDIA was the first country to adopt an official policy favouring family planning in 1951. During the period of the first two Plans (1951-61), the emphasis in India was mainly on research in the field of motivation, communication, demography, physiology of reproduction and on the extension of Central and State organisations for providing clinic services. There was, therefore, very little progress in the adoption of family planning. In 1962-63 the programme was reorganised and a new "Extension Approach" was adopted. The programme is, at present, treated as an integral part of overall socio-economic development and welfare activity and not merely as an isolated birth control scheme.

Administration: A full-fledged Department of Family Planning was created in April, 1966, in the Ministry of Health and Family Planning. The department is headed by the Secretary of the Ministry and has administrative and technical wings headed by an Additional Secretary and a Commissioner respectively. There is a Family Planning Cabinet Committee presided over by the Finance Minister and the State Family Planning Cabinet Committees headed by the Chief Ministers to ensure expeditious policy clearance and better co-ordination among different administrative wings. The Central Family Planning Council is the supreme policy-making body. The Union Minister of Health presides over the Council, while all State Health Ministers and Secretaries are its members. Family Planning Councils also function at the State level.

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[*] In Kerala State 140 Survey Eradication Treatment Centres are functioning under Leprosy Control Units.

[†] There exist Survey Education and Treatment (SE. T) Units at Sevagram, Wardha Dist.; Jamner, Jalgaon Dist. and three clinics each to the above units.

[§] This Unit carries educational work on leprosy at Srirangam, Lalgudi, Kulittalai, Pudukottai and Ariyalur.

Allocation of Funds and Actual Expenditure During the Plan Periods

Period	Allocation of funds (in million Rs.)	Actual Expenditure (in million Rs.)
First Plan (1951-56)	6·5	1·45
Second Plan (1956-61) ..	49·7	21·56
Third Plan (1961-66) ..	270·0	248·60
1966-67	149·3	134·26
1967-68	310·0	265·23
1968-69	370·0	305·15
Fourth Plan (1969-74) ..	3,150·0	—
1969-70	420·0	361·8
1970-71	520·0	489·0
1971-72	606·0	617·6
1972-73	636·6	797·4
1973-74	534·5	—

Camps : During the year 1971-72, mass vasectomy camps were organised on a large scale in India. The total number of camps organised during the year were 52 and 761,138 sterilisation operations were performed in the camps. In the year 1972-73 mass vasectomy camps were held in 210 districts in which two million sterilisations were performed. The policy of organising mass vasectomy camps has since been discontinued since it was feared that it could be counter-productive.

Integrated Approach : Since 1973-74 a new approach which involves integration of health, family planning, maternity and child health (MCH) activities has been adopted and multi-purpose workers are being trained to perform all the integrated tasks.

Some Associations : Voluntary organisations have been recognised to be important in the field of family planning. Some of these are : the Family Planning Association of India, Indian Medical Association of India, Central Bharat Sevak Samaj, Indian Red Cross Society, Trained Nurses Association of India, Bharatiya Gramin Mahila Sangh, Indian Council of Social Welfare, the Christian Medical Association, the Rotary Clubs, the Lions Clubs, and the Junior Chambers of Commerce etc. Many of these voluntary organisations are represented on the Central as well as on the State family planning councils.

Research : Research in demography, bio-medicine and communication is supported by the Government through suitable grants.

A high-powered committee called the Committee on Socio Economic Studies on Family Planning has been constituted to go into different aspects of the family planning programme. This committee will advise and co-ordinate research on economic, sociological, educational, psychological, communicational and demographic aspects of population growth and family planning. The Committee will also review the progress of the research work done in this field and make recommendations for development of research in these fields. It will also review the working of the research centres dealing with population studies.

Number of Service Units for Family Planning Programme (March 1973)

Facilities	Number
Family Planning Centres	
(*a*) Urban Family Planning Welfare Centres	1,879
(*b*) Rural Primary Family Planning Centres	5,021
(*c*) Rural Sub-centres	32,423
(d) Other Institutions providing planning services	
(*i*) Urban	2,333
(*ii*) Rural	5,780
(*e*) Mobile Units	
(*i*) IUCD	491
(*ii*) Sterilizations	366

The International Institute for Population Studies, Deonar, Bombay 400088 : (till recently known as Demographic Training and Research Centre) is a regional centre for the training of demographers and population experts from India and other ECAFE countries. It is supported by the United Nations and the Government of India. Apart from teaching responsibilities, the Institute has undertaken meaningful researches having a direct bearing on family planning policies.

Demographic Centres: The National Institute of Family Planning, New Delhi, is responsible for undertaking family planning researches. In addition, there are at present nine demographic research centres located at : Institute of Economic Research, Dharwar ; Department of Economics, Lucknow University, Lucknow ; Department of Statistics, Government of Kerala, Trivandrum : Gokhale Institute of Politics and Economics, Poona ; Department of Statistics, M.S. University, Vadodara ; Indian Statistical Institute, Calcutta ; Institute of Economic Growth, Delhi ; Department of Statistics, University of Patna, Patna ; and Institute of Social and Economic Change Bangalore.

Researches on family planning communication action is being undertaken at the Institute of Rural Health and Family Planning, Gandhigram ; Planning Research and Action Institute, Lucknow ; Department of Statistics, Kerala University, Trivandrum ; and Indian Statistical Institute, Calcutta.

India Population Projects: Since 1973, two five-year experimental projects on family planning have been initiated. The first project covers six districts of Uttar Pradesh and the second five districts of Karnataka. These projects will be run with assistance from the International Development Association to the extent of 21·2 million dollars in the form of a loan, and 10·6 million dollar grant from the Swedish International Development Authority. The emphasis in these projects is on the implementation of a maternity-based family planning programme both in urban and rural areas. An attempt will also be made to assess the effect of supplementary nutrition on the acceptance of family planning in one district each in the two States and to develop a better system of management, information and evaluation. The implementation of the field programme has been divided into three broad categories, namely, an urban programme in the cities of Lucknow and Bangalore; an optional programme on the existing pattern in four districts of Uttar Pradesh and three districts of Karnataka; and an intensive rural programme in two districts of each of the States. A population centre is attached to each of these projects. The main function of the Centre is to carry out experimental and innovative studies in the field of family planning and to experiment with new management techniques.

Research in Reproductive Biology and Fertility Control is carried out at the Central Drug Research Institute, Lucknow; All India Institute of Medical Sciences, New Delhi; Rajasthan University; National Institute of Family Planning, New Delhi; the Indian Institute of Sciences, Bangalore; Institute for Research in Reproduction, Bombay. The Indian Council of Medical Research provides Technical advice and co-ordination of the work in the field of medical and bio-medical research.

Training: The training of family planning instructors and key staff is undertaken by five training institutes, the National Institute of Family Planning, New Delhi; the Institute of Rural Health and Family Planning, Gandhigram; the All India Institute of Hygiene and Public Health, Calcutta; the Family Planning Training and Research Centre, Bombay; and the Central Health Education Bureau, New Delhi. Forty-six Regional Family Planning Training Centres at the State level have been sanctioned, out of which 44 are functioning at present. Each State has a Central Family Planning Field Unit which undertakes ad hoc training programmes. In order to overcome the acute shortage of Auxiliary Nurse Midwives in some States, the Family Planning Department opened 25 new ANM training schools in 1970-71, ten in Bihar, ten in Uttar Pradesh and five in Orissa.

Oral Contraceptives: The Technical Committee on Family Planning recommended in June 1971, that oral contraceptives may be tried both in urban and rural areas under some restricted conditions as an adjunct to the IUCD programme. Out of the 456 projects approved so far, 317 have been commissioned. Nine preparations for use as oral contraceptive pills have been approved by the Indian Council of Medical Research.

Progress: Since the inception of the programme 4·778 million IUCDs and 14·30 million sterilisations have been performed. The rate of IUCD insertions per 1,000 population was 8·3 and that of sterilization was 24·8. Over 120 million pieces of condoms are at present being distributed through the commercial and free distribution channels. It has been estimated that about 15·48 million couples are currently being protected as a result of the family planning programme which comes to 15·0 per cent of the reproductive couples. Corresponding percentages for sterilizations, IUCD and conventional contraceptives are 11·4, 1·3 and 2·3 respectively.

The impact of the family planning programme on the birth rate has been to reduce it from 41·7 in 1961 to 36·5 in 1972-73. This reduction has been estimated on the basis of the calculation of the number of births averted by the family planning performance. The birth rate thus estimated compares very well with the estimate of the birth rate of 37·2 per thousand population in 1971 from the Sample Registration Scheme of the Registrar General of India. It has been estimated that a total of 14·7 million births have been averted till Sept. 1973 as a result of the family planning programme in India.

District-wise Performance: A district-wise study of family planning performance in India for the period 1967-70 indicated that though the progress of family planning had not been uniform in all the stages and though some States like Punjab, Haryana, Maharashtra, Kerala, Tamil Nadu and Orissa had done better than the other States, all the districts in the better performing States had not done well, nor had all the districts in poor performing States done poorly.

Religion and Family Planning: The religion-wise distribution of sterilisation and IUCD insertions based on a 10 per cent sample of studies conducted during July 1967 — June 1968 indicates that the proportion of Muslim acceptors of sterilization and IUCD are more or less the same as the proportion of Muslims in the general population. The details are as follows:

Religion	All India Sterilized persons	IUCD acceptors	Distribution in 1971 Census
Hindu	87·0	84·6	82·7
Muslims ..	8·6	7·4	11·2
Christians ..	0·7	2·1	2·6
Sikhs	1·0	2·7	1·9
Others	2·7	3·2	1·6
Total	100·0	100·0	100·0
Number of cases	37,553	18,904	

Urban-Rural Acceptance: Following are the details of the acceptance of different methods of family planning in urban and rural areas for the period 1966-1970:

Year	No. of sterilisation	Percentage of rural to total	No. of IUCD insertions	Percentage of rural to total
1966-67	887,368	57·7	909,726	59·6
1967-68	1,839,811	61·7	668,979	58·9
1968-69	1,664,817	64·2	478,731	59·8
1969-70	1,422,118	55·9	458,726	58·4
1970-71*	1,319,580	57·0	471,030	40·0

* Provisional figures.

PERCENTAGE OF COUPLES CURRENTLY PROTECTED BY VARIOUS METHODS UPTO SEPT. 1973

States/Territories	Estimated no. of reproductive couples (million)	PERCENTAGE OF COUPLES PROTECTED			
		Sterilisation	IUCD	Conventional contraceptives	All methods
Andhra Pradesh	8·50	15·5	0·6	0·5	16·7
Assam	2·47	6·5	1·2	0·2	7·8
Bihar	1·22	6·8	0·8	0·2	7·8
Gujarat	4·98	15·6	0·9	1·4	17·8
Haryana	1·69	10·9	4·5	4·5	19·9
Himachal Pradesh	0·67	6·3	1·6	0·6	8·6
Jammu & Kashmir	0·91	6·0	1·8	0·3	8·2
Karnataka	5·30	10·1	0·9	0·8	11·8
Kerala	3·29	16·8	2·4	0·6	19·7
Madhya Pradesh	8·51	10·9	1·3	0·5	12·8
Maharashtra	9·67	21·2	2·6	1·3	23·0
Manipur	2·17	1·4	2·4	0·1	3·9
Meghalaya	0·17	0·6	0·5	0·2	1·4
Nagaland	0·07	0·3	0·04	—	0·4
Orissa	4·36	13·2	2·7	0·5	16·4
Punjab	2·27	11·6	8·5	4·9	22·0
Rajasthan	5·09	5·0	1·0	0·5	6·4
Tamil Nadu	7·70	15·8	1·2	1·0	18·0
Tripura	0·29	5·6	0·2	0·4	6·1
Uttar Pradesh	17·28	5·7	1·4	0·5	7·2
West Bengal	7·71	10·0	0·7	0·6	11·2
A. & N. Islands	0·02	5·2	1·0	2·4	8·6
Arunachal Pradesh	0·05	0·2	0·4	—	0·6
Chandigarh	0·04	8·7	5·7	12·7	27·1
Dadra & Nagar Haveli	0·01	4·0	0·2	1·5	5·8
Delhi	0·72	9·6	3·2	22·3	35·1
Goa, Daman & Diu	0·13	8·2	1·0	1·8	11·0
Lakshadweep	0·006	3·2	0·4	2·1	5·7
Pondicherry	0·09	14·9	5·7	1·4	22·1
All India	103·39	11·4	1·3	2·3	15·0

FAMILY PLANNING PROGRAMME IN INDIA 1972-73: PERFORMANCE AND PROPORTION OF TARGETS REACHED FOR STERILISATION AND IUCD IN THE STATES AND UNION TERRITORIES

State	1972-73			
	Sterilization	Percentage of target reached	IUCD	Percentage of target reached
Andhra Pradesh	334,767	75·8	14,684	36·7
Assam	61,109	39·6	4,152	34·8
Bihar	267,253	46·0	24,404	16·3
Gujarat	96,723	35·1	3,965	54·3
Haryana	55,508	53·9	16,431	82·2
Himachal Pradesh	5,893	16·7	2,543	45·3
Jammu and Kashmir	10,411	21·0	4,025	33·5
Karnataka	143,997	44·8	13,270	44·2
Kerala	90,389	41·2	21,444	39·0
Madhya Pradesh	317,791	73·9	36,712	61·2
Maharashtra	609,901	117·3	9,420	36·2
Manipur	594	5·4	1,718	78·1
Meghalaya	379	3·7	420	60·0
Nagaland	—	—	—	—
Orissa	90,609	40·0	40,133	53·5
Punjab	58,169	41·8	31,118	56·3
Rajasthan	73,367	27·6	15,619	29·5
Tamil Nadu	240,277	68·4	22,923	31·8
Tripura	2,367	14·7	208	26·0
Uttar Pradesh	338,085	37·1	58,952	29·5
West Bengal	227,610	49·6	9,493	34·5
A. and N. Islands	158	13·3	34	26·2
Arunachal Pradesh	46	1·0	38	6·8
Chandigarh	1,155	41·4	1,255	156·9
D. and N. Haveli	128	16·2	11	11·0
Delhi	12,136	25·8	6.658	66·6
Goa, Daman and Diu	2,178	24·6	428	42·8
Lakshadweep	98	28·8	3	7·5
Pondicherry	3,981	81·9	1,163	18·6
M/O Defence	10,364	64·9	3,752	52·9
M/O Railways	14,973	48·5	3,185	33·7
All India	3,116,362	54·7	353,162	37·2

New Legislations : The Medical Terminations of Pregnancy Act was passed in 1972 and is designed to substantially liberalise legal provisions to resort to abortion in cases where contraceptive fail to prevent conception. From April till Dec. 1973, 27,645 pregnancies were terminated. The Government also proposes to raise the legal minimum age of female marriage from 16 to 18 years. This measure, when brought into force, is likely to promote the trend to fertility decline. The Govt. has also taken preliminary steps to introduce population education in schools and colleges.

PUBLIC HEALTH

(For the addresses of the Research Institutes mentioned in this chapter please refer to 'Research' chapter)

HEALTH programmes are primarily the responsibility of the State Governments. The Centre is, however, directly responsible even for the State subjects in the Union Territories.

Outlay on Public Health and Medical Programme

(Rs. Million)

Period	Central	Centrally sponsored	States	Union Territories	Total
Third Plan	148·3	54·6	1,932·4	123·3	2,258·6
1966-69 (anticipated)	167·6	111·4	1,052·4	69·7	1,401·1
Fourth Plan	535·0	1,765·0	1,842·4	192·9	4,335·3
Fifth Plan		757·8	1,770·1	5,432·1†	7,960·0
1973-74		98·0	222·0	698·9*	1,018·9
1974-75		63·3	256·4	495·5*	815·7

* Includes Union Territories also.

† Includes Rs. 2,994.0 million for minimum needs Programme.

Expectation of Life at Birth and Death Rates

Year	Expectation of Life at Birth		Death Rate per 1,000 population
	Males	Females	
1941-50 ..	32·5 years	31·7 years	27·4
1951-60 ..	41·9 years	40·6 years	22·8
1961-65 ..	45·7 years	44·3 years	19·2
1966-70 ..	48·2 years	46·8 years	17·0
1971-75 ..	50·7 years	49·3 years	15·0

Sources : (*i*) The figures for 1941-50 and 1951-60 are based on Census estimates.
(*ii*) The figures for 1961-65, 1966-70 and 1971-75 are estimates based on the revised projections made by the Expert Committee appointed by the Government of India.

The Central Health Service covers all medical and public health posts under the Central Government and the Union Territories other than those under the Ministries of Railways and Defence. This service came into being with effect from January 1, 1965.

Cancer : About 425,000 people die every year from cancer in India. There are 50 general hospitals in the country where facilities for cancer treatment are available in the form of surgery, radium etc. The State-wise break-up is: Andhra Pradesh 2, Assam 4, Bihar 1, Delhi 2, Gujarat 3, Karnataka 4, Kerala 3, Maharashtra 3, Orissa 2, Punjab (including Haryana) 5, Rajasthan 4, Tamil Nadu 8, Uttar Pradesh 4, and West Bengal 4. During the Fifth Plan it is proposed to strengthen the treatment facilities by providing radio-therapy units at medical college hospitals and important district hospitals with Cobalt beam.

Research is conducted at the Cancer Research Institute, Parel, Bombay; the Cancer Institute, 110, Mount Road, Madras 600018; the Chittaranjan National Cancer Research Centre, Calcutta; Radium Institute and Cancer Hospital, Hyderabad; J. K. Institute of Radiology and Cancer Research, Kanpur; International Cancer Centre, Neyoor (Tamil Nadu) and S. N. Medical College, Agra. Field research stations for clinical facilities have also been established at Chandernagore, Hooghly, West Bengal and Madras. The Indian Council of Medical Research has started a study of cancer on cervix at the Lady Hardings Medical College and Safdarjang Hospital in New Delhi.

Cholera : Because of the continued incidence and epidemic outbursts of this disease, India has acquired the name of "the home of Cholera". The endemic areas are in the seven States of Andhra Pradesh, Bihar, Maharashtra, Karnataka, Orissa, Tamil Nadu and West Bengal. In 1972 there were 20,916 cases and 2,849 deaths. Till Nov. 1973 the member of cases were 34,972 and deaths 4,009.

An outlay of Rs. 20 million was made under the Fourth Plan. Priority is being given for provision of safe water supply and proper drainage under the National Water Supply and Sanitation Programme to the endemic areas. Preventive and surveillance measures are also being carried out. During the Fifth Plan, it is proposed to establish 54 Cholera Combat teams, one in each endemic district.

Research studies on the various aspects of cholera are being carried out at the Cholera Research Centre, Calcutta in collaboration with the WHO; the School of Tropical Medicine, Calcutta in collaboration with the Johns Hopkins University, U.S.A.; the Central Drug Research Institute, Lucknow; the Haffkine Institute, Bombay; the Central Research Institute, Kasauli, Himachal Pradesh and at the National Institute of Communicable Diseases, Delhi.

Filaria : The National Filaria Control Programme has been in operation since 1955-56. The programme consists of (*i*) anti-mosquito and anti-larval measures, (*ii*) establishment of filaria clinics for the detection and treatment of positive micro-filaria cases, (*iii*) provision of underground drainage in hyper-endemic cities and towns and (*vi*) establishment of Bureaux of Filaria at State level for prevention of filarious conditions. But, the present activities of the programme are confined only to recurrent anti-larval measures with mosquito larvicidal oil, undertaken by the Filaria Control Units.

In 1973, 136 Filaria Control Units and 12 Headquarter Bureaux were functioning in 15 States/Union Territories endemic for filariasis. These units are protecting a population of 13 million.

The headquarters of the programme is located at the National Institute of Communicable Diseases, Delhi. Training in filariology is being imparted at the Regional Filaria Training and Research Centres located each at Calicut (Kerala), Rajamundry (Andhra Pradesh) and Varanasi (Uttar Pradesh). These Centres are also responsible for the field evaluation of the programme, and researches on various aspects of filariasis.

Goitre : Endemic goitre is a nutritional deficiency disease and is prevalent in the southern slopes of the Himalayas covering a distance of 2,414 kms. About 40 million people live on this goitre belt which consists of northern parts of Jammu and Kashmir. Punjab, Haryana, Himachal Pradesh, Bihar, West Bengal, Nagaland, Arunachal Pradesh and Manipur. The persons affected with goitre are estimated to be about 8 to 10 million.

The National Goitre Control Programme was initiated in the Second Plan and has been continued in the Third, Fourth and Fifth Plans. Under the Plans, iodised salt is manufactured at three iodisation units — one each at Sambhar Lake, in Rajasthan; Kharaghoda in Gujarat; and Calcutta. It is supplied to the public at the same rate at which ordinary salt is sold.

During 1973-74, two *Centre Goitre Survey Teams* conducted surveys in the districts of Deoria (U.P.) and Aurangabad (Maharashtra). 83,389 tonnes of iodised salt was supplied to endemic States upto Oct. 1973.

Leprosy : It has been estimated that 372 million people in India are exposed to leprosy. Estimate of the actual cases of leprosy is about 3·1 million of which only 20 per cent cases are of the infectious type. Out of the 372 million people at risk, about 98 million have been covered and out of 3·1 million cases slightly over one million cases have been recorded and put under treatment.

Under the National Leprosy Control Programme 245 Leprosy Control Units and 1,496 Survey, Eradication and Treatment Centres have been established in the country for provision of medical facilities to leprosy patients on the domiciliary ambulatory method upto 1973-74.

The Central Leprosy Teaching and Research Institute, Chingleput (Tamil Nadu) undertakes research in the various problems concerning leprosy and promotes field studies for the application of the results of the research to control the spread of leprosy. It also functions as a centre for offering technical advice and guidance for the promotion of anti-leprosy work on sound lines. Training courses for medical officers, para-medical workers, physiotherapy technicians, laboratory technicians etc. are conducted in this Institute.

Assistance to the programme is received from the WHO and the UNICEF in the form of personnel, fellowships, transport, equipment, drugs, teaching aids and stipends for trainees.

Private organisations also take active part in controlling leprosy. These include the Leprosy Mission, Hind Kushta Nivaran Sangh (the Indian Leprosy Association), Gandhi Memorial Leprosy Foundation (for addresses refer to the chapter on 'Institutions for the Handicapped') and 3 R'Society, C/o Tata Dept. of Plastic Surgery, Balaram Bldg., J. J. Group of Hospitals, Bombay 400008.

The Reconstructive Surgery Programme is receiving increasing attention of the Government of India and leprosy patients with deformities of hands, feet and face get facilities of corrective surgery now in about 30 hospitals in India.

Malaria : India with 1,091,561 malaria cases (1972) is the worst affected country according to World Health Organisation. During 1973-74, there were 1,498,961 cases upto the end of December. The National Malaria Eradication Programme which was started in 1958-59 has entered the 16th year of its operation during 1973-74. There are at present 393·25 NMEP units functioning in the country covering a population of 535 million. The remaining 20 million population reside in areas which were never malaria endemic.

The incidence of the disease which used to be 75 million cases per year in 1952 *i.e.*, 200,000 cases in a million population has been reduced to about 0·6 million cases in 1971 *i.e.*, about 1,300 cases in a million population. The malaria mortality which was estimated in 1952 to be 0·75 million deaths or 2,000 deaths in a million population has become an extreme rarity.

The programme is being implemented by the Union Government with the active participation of the State Governments as well as with the assistance of the World Health Organisation. The National Institute for Communicable Diseases is responsible for research and field investigations and for the training of unit medical officers and district health officers in methods of malaria eradication. Other categories of health personnel are trained by the regional co-ordinating organisations established at Bangalore, Vadodara, Bhubaneswar, Hyderabad, Lucknow and Shillong. With a view to controlling inter-country transmission of malaria, the first Bangla Desh, Burma and India Malaria Eradication Coordination Conference was held in Rangoon in Jan.-Feb., 1973. Likewise unit Officers of India and Burma met in Imphal in Nov. 1973.

Mental Diseases : At present there are 38 mental hospitals with accommodation for about 25,000 patients. About 1 million Indians suffer from mental sickness (1971).

The incidence of mental illness is on the increase because of increased stresses and strains of modern life. It is proposed to establish 50 psychiatric clinics in the medical colleges during the Fifth Plan. The following is a list of mental hospitals in India :

Andhra Pradesh : Government Mental Hospital, Waltair; Hospital for Mental Diseases, Hyderabad. **Assam :** Mental Hospital, Tezpur. **Bihar :** Hospital for Mental Diseases, Ranchi; Ranchi Manasika Arogya Shala, Ranchi. **Delhi :** Mental Hospital, Delhi. **Goa :** Mental Hospital, Panaji, Goa. **Gujarat :** Mental Hospital, Ahmedabad; Mental Hospital, Vadodara; Mental Hospital, Bhavnagar; Mental Hospital, Bhuj; Mental Hospital, Jamnagar. **Jammu and Kashmir:** Mental Hospital, Srinagar. **Karnataka :** Government Mental Hospital, Bangalore; Government Mental Hospital, Dharwar. **Kerala :** Mental Hospital, Trivandrum; Mental Hospital, Trichur; Mental Hospital, Calicut. **Madhya Pradesh:** Mental Hospital, Indore; Mental Hospital, Gwalior. **Maharashtra :** Mental Hospital, Thana; Mental Hospital, Ratnagiri; Central Mental Hospital, Yeravada; Mental Hospital, Nagpur; Private Hospital, Miraj. **Orissa :** Orissa Red Cross Mental Health Institute, Cuttack. **Punjab :** Mental Hospital, Amritsar. **Rajasthan :** Mental Hospital, Jaipur; Mental Hospital, Jodhpur. **Tamil Nadu :** Government Mental Hospital, Madras. **Uttar Pradesh :** Mental Hospital, Varanasi; Mental Hospital, Agra; Mental Hospital, Bareilly; Nur Manzil Psychiatric Centre, Lucknow. **West Bengal :** Mental Observation Ward, Calcutta; Lumbini Park Mental Hospital, 24-Parganas; Bangya Unmad Ashram, Calcutta; Mental Hospital, Calcutta; Bodhi Peet Mental Hospital, Calcutta; Mental Hospital, Mankundu, Hooghly.

There are at present 51 institutions (25 Government and 26 private) for the **Mentally retarded** and the **Mentally handicapped.** The major centres are in : Chandigarh (1), Uttar Pradesh (5), Karnataka (2), Maharashtra (19), Tamil Nadu (1), Madhya Pradesh (1), Kerala (1), Gujarat (3), Delhi (7), Bihar (2) and Andhra Pradesh (2).

The All-India Institute of Mental Health, Bangalore was established in September, 1954, for imparting post-graduate training and research in mental health and other disciplines of neuro-sciences.

This is an autonomous organisation financed by the Government of India and conducts the following post-graduate courses : *(i)* M.D. degree in Psychological Medicine; *(ii)* M.Ch. degree in Neurosurgery; *(iii)* D.M. degree in Neurology; (*iv*) Diploma in Psychological Medicine (DPM); (*v*) Diploma in Medical and Social Psychology (DM & SP); (*vi*) Ph.D. in Clinical Psychology; and (*vii*) Diploma in Psychiatric Social Work (DPSW). The Institute is affiliated to the Bangalore University for post-graduate courses. Post-certificate course in Psychiatric Nursing (DPN) is also conducted at the Institute. This diploma is recognised by the Government of India and the Indian Nursing Council.

Smallpox : As a result of the intense campaign, the number of smallpox cases and deaths declined considerably during 1968 to 1971. But since then there has been a rise in the incidence. 27,407 cases were recorded in 1972, an increase of 68 per cent over the total in 1971. In 1973, 79,904 smallpox cases and 14,001 deaths were reported. About 94 per cent of the cases are reported from four States namely Uttar Pradesh, Madhya Pradesh, West Bengal and Bihar.

Year	Cases	Deaths
1967	83,943	26,225
1968	30,295	7,266
1969	19,139	4,156
1970	12,341	2,241
1971	16,166	1,738*
1972	27,407	5,457
1973	77,904	14,001

Source : CBHI. * Upto mid-October 1971.

For many States, the increase reflects more effective surveillance activities and the discovery of many cases which previously would not have been reported. In addition, since April the reporting system itself has been steadily improved. Smallpox is now principally confined to 66 of India's 358 districts. About 76 per cent cases have been reported from these districts which are located in four States. The principal foci are in north-central and north-east India in the States of West Bengal, Uttar Pradesh, Bihar and Madhya Pradesh. A separate focus is present in Jammu and Kashmir where major epidemics are now occurring following introduction of the disease in spring of 1972 from other parts of India. The maximum cases of smallpox have been registered in the months April and May followed by March, February, January and December. Minimum cases have been registered in the month of October followed by September, August, July and June.

During 1972-73, 26·96 million primary and 90·47 million re-vaccinations were performed. During 1973-74, 958 million primary and 33·74 million re-vaccinations have been done till Sept. 1973. During the Fifth Plan period, the annual target will be 5 per cent of the population for primary and 20 per cent for re-vaccination.

Trachoma : Trachoma infection is highly endemic in the States of Punjab including Haryana (79·1 per cent), Rajasthan (74·3 per cent), Uttar Pradesh (68·1 per cent), and Gujarat (56·0 per cent). The States of Madhya Pradesh (41·3 per cent), Bihar (35·0 per cent), Assam (25·2 per cent) and Karnataka (22·6 per cent) are considered to be moderately endemic areas where the prevalence is more than 20 per cent but less than 50 per cent. The low endemic areas where the prevalence is noted to be under 20 per cent are the States of Jammu and Kashmir (16·8 per cent), Maharashtra (11·3 per cent), Kerala (8·7 per cent), Andhra Pradesh (5·3 per cent), Tamil Nadu (4·6 per cent), Orissa (2·7 per cent) and West Bengal (0·5 per cent).

About 4·5 million persons are estimated to be blind in India in comparison to the total world estimate of about 15 million. Trachoma and associated infections constitute the most important cause of preventible blindness.

The National Trachoma Control Programme was undertaken in 1963. The programme is being implemented in Punjab, Haryana, Rajasthan, Uttar Pradesh and Gujarat and on a limited scale in Madhya Pradesh, Bihar, Karnataka and Jammu & Kashmir.

Of the 329·3 million population at risk in 3,576 blocks/Primary Health Centres in the Country, 110·66 million population in 1,314 blocks/Primary Health Centres have been covered under the programme. Additional 72·03 million population in 801 blocks/PHCs. is proposed to be covered during 1973-75.

Influenza : An Influenza Centre was opened in 1950 at the Pasteur Institute, Coonoor, Tamil Nadu, to undertake study of and research in problems relating to influenza. The centre co-operates with the World Influenza Centre, London and other influenza centres organized by the WHO in different parts of the world.

Diabetes : The urban population in the country is more prone to diabetes than its counterparts in rural areas. On a rough estimate at the end of 1972 about 5·5 million people were suffering from diabetes in India. Of them, urban area's share was 3·3 million.

Tuberculosis : There are at present 547 TB clinics in the country including 278 upgraded District T.B. Centres. Approximately, 39,500 T.B. beds have been established. There are 15 TB Demonstration and Training Centres.

According to World Health Organisation about two million infectious cases of tuberculosis (1972) have been reported in India. It is estimated that the number of active cases is nearly 8 million. About 3,000 towns and urban areas and 600,000 villages are affected by tuberculosis. The Government of India proposes to have one BCG team in every district. The 300 BCG teams currently functioning in various States and Union Territories have vaccinated some 155 million people and tuberculin tests have been done on another 251·5 million.

The National Tuberculosis Institute of India, established by the Government of India in 1959 is responsible for formulating and continuous evaluation of India's National Tuberculosis Programme. It carries out applied research in Tuberculosis Epidemiology, Bacteriology and BCG Vaccination, Sociological Studies as well as operation Research. This institute also arranges for the training of tuberculosis programme workers. There are two more research institutions at Madanapalle, Andhra Pradesh and Tamil Nadu. Training is also imparted at other institutions, such as Vallabhbhai Patel Chest Institute, Delhi.

Anti-TB drugs are being procured and supplied by the Government of India to voluntary organisations which operate TB clinics and supply such drugs free of charge to TB patients under their care. A target of 75 district T.B. Centres and 3,500 isolated beds have been fixed for the Fifth Plan.

Venereal Diseases : India has an estimated 20 million people suffering from V.D.; which comes to nearly 20 per cent of the reproductive age group population. About 5 per cent of the total population suffers from syphilis and an equal percentage from gonorrhoea. Yaws is prevalent in a few districts of Andhra Pradesh, Orissa, Madhya Pradesh and Maharashtra.

V. D. control schemes are sponsored by the Union Government, which gives all the money needed to the States and Union Territories. In India, only 39 V. D. clinics exist, whilst some hospitals have special wards for V. D. patients. A mobile V.D. Unit at Safdarjang Hospital, N. Delhi has started functioning since July 1973. Sufficient quantity of VDRL antigen is produced in the country.

Training facilities are available in the V. D. Training Centre, Safdarjang Hospital, New Delhi and the Institute of Venereology, Government General Hospital, Madras. Apart from these institutions, few colleges have a venereological department.

Air Pollution : The atmospheric pollution in cities like Delhi, Calcutta, Bombay and Kanpur has increased between 50 and 100 per cent since 1957. This affects the health of the people. The Central Public Health Engineering Research Institute, Nagpur is studying the effects of air pollution in Bombay. A national network of sampling for air quality has been set up in nine cities (*viz.* Delhi, Calcutta, Madras, Kanpur, Bombay, Ahmedabad, Hyderabad, Jaipur and Nagpur).

The Union Government has set up an expert committee to study the general problem of air pollution in the country and to suggest ways and means including a draft legislation to control them. Government of India has decided to set up many stations to measure air pollution in all major cities. A beginning would be made with 10 of them being located in schools or colleges of Delhi with the help of teachers.

National Water Supply and Sanitation Programme: This programme was launched in 1954. During the three plan periods and three annual Plans, about 418,700 new wells were constructed and 304,000 new hand-operated tube wells were bored. In addition about 554,000 old wells were renovated.

The Fourth Plan outlay for the national water supply and sanitation programme was placed at Rs. 4,105·3 million for the States and Union Territories. The Plan envisages the following priorities for execution of water supply and sanitation programme : (*i*) Completion of schemes under execution; (*ii*) Schemes for controlling water borne and filth borne diseases in endemic areas; (*iii*) Schemes in drought and scarcity areas; and (*iv*) Schemes to push up economic prosperity.

The programme also provides for the training of public health engineering personnel. The training programme is being implemented at the Victoria Jubilee Technical Institute, Matunga, Bombay 400019, the All India Institute of Hygiene and Public Health, Calcutta, the Engineering College, Guindy, Tamil Nadu and the Engineering College, Roorkee, Uttar Pradesh. The Central Public Health Engineering Organisation (C/o Min. of Health and Fly. Plng.) has been set up for helping State Governments in the preparation and execution of their schemes and for giving technical advice and guidance. Similar organisations have also been established in most of the States.

HEALTH EDUCATION: The Central Health Education Bureau at Temple Lane, Kotla Road, New Delhi 110001, established in November 1956, co-ordinates and promotes health education in the country through Health Education Bureau established in 15 States and 5 Union Territories.

The Bureau conducts a one-year Diploma in Health Education under the auspices of the University of Delhi and conducts in-service training programmes for health and family planning education personnel. It conducts behavioural research on health aspects and develops health education curricula for different age-groups and teacher training. The Bureau organises exhibitions, maintains a film library and produces education and publicity materials for National Health Programmes.

Publications : The Central Health Education Bureau publishes monthly journals Swasth Hindi (English) and Arogya Sandesh (Hindi) for general readers and Director General of Health Services Chronicle for medical personnel. It also produces health education material — folders, pamphlets, posters, filmstrips, etc.

FOOD AND NUTRITION: Several measures are being taken to meet the nutritional deficiency of certain vulnerable groups such as industrial workers, expectant and nursing mothers and school children. Skim milk powder supplied by UNICEF and other organisations is distributed to children and expectant and nursing mothers. Mid-day meals are provided to about 13·1 million primary school children. Other schemes being implemented are protein supplement to the diet of the vulnerable groups, opening of canteens in industrial concerns and offices and manufacture and popularisation of cheap and nutritious food.

Malnutrition is one of the major factors responsible for high mortality and morbidity in India. Nutrition divisions have been established in Health-Dept. of 16 States and Union Territories to tackle the problem of malnutrition. These divisions assess the incidence of nutritional deficiencies among various groups, conduct nutrition education campaigns and supervise supplementary feeding programmes.

Quality control over Food articles is exercised under the Prevention of Food Adulteration Act, 1954. A Food Squad was established under the Act to check adulteration of food stuffs. Out of 201 samples drawn by the squad in 1973, 71 were found adulterated.

The Central Food Laboratory, Calcutta, acting as an appellate laboratory under the Prevention of Food Adulteration Act, imparts training facilities to the analysts and inspectors of various States and local bodies.

INDIGENOUS SYSTEMS OF MEDICINE : The Central Council for Research in Indian Medicine and Homoeopathy at E25, Defence Colony, New Delhi 110003, constituted in the year 1969-70 is responsible for initiating, guiding and co-ordinating scientific research in different aspects, fundamental and applied, of Ayurveda, Siddha and Homoeopathy systems of Medicine and also for Yoga. The Central Council of Indian Medicine, New Delhi is responsible for ensuring uniform standards of education and the registration of practitioners of Indian System of medicines.

MEDICAL EDUCATION: At the commencement of the Fourth Plan there were 93 medical colleges in the country. At present 100 medical colleges with over 12,500 annual admission capacity are functioning in the country. **The doctor : population ratio** improved from 1 : 6,100 in 1961 to 1 : 4,730 in 1972-73 and to 1 : 4,300 in 1973-74.

(Refer to the "Education" chapter for a list of medical colleges.)

Training of Nurses : In the year 1960-61 there were about 27,000 trained nurses in the country. In 1972-73 this figure stood at 87,357. It is expected that by the end of the Fifth Plan there will be 100,000 nurses in the country.

The number of training institutions for nursing personnel and of students under training at the end of 1972-73 were as follows :

The figures within brackets indicate the number of students: Nurses 260 (18,551); Midwives 234 (4,257); Auxiliary Nurse-Midwives 322 (12,133); Health Visitors 19 (1,281).

Dental Education : There are now 15 Dental Institutions all affiliated to Universities, training students for the degree of Bachelor of Dental Surgery (B.D.S.), having facilities for about 600 admissions. (Refer to the chapter on Education for the list of dental institutions.)

Pharmacy: The Pharmacy Act, 1948, regulates the education and professional aspects of pharmacy. The Drugs Act, 1940, regulates the import, manufacture, dispensing and sale of drugs and cosmetics. The poisonous and dangerous drugs are also controlled under separate enactments.

A person has to register himself to practice pharmacy. A licence is required for sale, distribution, dispensing and compounding of drugs and medicines.

Medical Research : (Refer to " Research " chapter.)

STATUTORY COUNCILS

Medical Council of India : Established under the Indian Medical Council Act of 1956, this Council is responsible for the maintenance of the Indian Medical Register, and uniform standards of medical education and for recognition of medical qualifications in the country. The **total number of doctors** on the Medical Register upto 31st December 1973 is 175,615.

Dental Council of India : This council was established under the Dentists Act of 1948 for the regulation of the profession of dentistry. It maintains uniform standards of dental education in the country. It also maintains a register of qualified dentists. The number of dentists on the register of the council as on April 1973 was 5,692.

Pharmacy Council of India : was constituted under the Pharmacy Act, 1948 to regulate the minimum educational standards for qualification as a pharmacist. By December, 1973, the Council had approved diploma courses in pharmacy of 41 centres having annual admissions of 2,099 and degree course in pharmacy at 12 centres having annual admissions of 401 which conform to the prescribed standards. The list of Pharmacy institutions is given under the Chapter on Education. The Council has also approved 299 institutions having capacity of 1,431 student pharmacists for practical training.

The registration of pharmacists is the responsibility of the State Governments State Pharmacy Councils. By December, 1973 there were about 93,000 registered pharmacists of which about 8,000 had obtained the required academic qualifications.

Indian Nursing Council : This Council established under the Indian Nursing Act, 1947, is responsible for laying down uniform standards of nursing education and for recognition of qualifications and other work relating to these matters such as inspection of schools and maintenance of Nurses' Register.

Address : All above councils are housed in the Medical Council Building, Temple Lane, Kotla Road, New Delhi 110001.

Availability of Health Services in India : 1960-61 to 1971-72*

Items & Units	1960-61	1970-71	1971-72	Targets for Fourth Plan
Hospital beds ('000)	186·0	266·2	269·8	281·6
Primary Health Centres (number)	2,800	5,112	5,183	5,427
F. P. Centres ('000)	1,649	36,800	38,568	N.A.
Medical Colleges (number)	57	95	97	103
Doctors ('000)	70	115·7	122·98	139·9
Nurses ('000)	27·0	77·8	78·00	88·0
Auxiliary nurse, Midwives ('000)	19·9	57·0	—	70·0
Public Health expenditure (Rs. million)	890	3,481	—	4,375·0

* *Sources :* 1. Draft of Fourth Five-Year Plan. 2. Ministry of Health and Family Planning, Directorate General of Health Services, New Delhi.

Availability of Health Services in India : 1960-61 to 1973 End per 100,000 Population*

Items	1960-61	1970-71	1973 End**
Doctors	15·9	21·5	23·3
Beds	42·4	29·4	66·0
Auxiliary nurse, Midwives	1·4	10·6	16·0
Nurses	6·2	12·7	14·5

* *Sources :* 1. Draft of Fourth Five-Year Plan. 2. Ministry of Health and Family Planning, Directorate General of Health Services, New Delhi. ** Estimated figures.

POPULATION

Census : Most of the population data in India are available from the Indian Censuses. The first synchronous Census of India was taken in 1881, and since then a census has been taken every tenth year. The last of the series is the Census of 1971 which gives the population count as of the sunrise of 1st April 1971. The previous censuses gave the population count as of the sunrise of 1st March, but the mid-term General Election of 1971 made it necessary to shift the census date by one month. The enumeration, therefore, started from 10th March and ended on 31st March, 1971. The households were revisited by the enumerators between 1st April to 3rd April 1971 to bring the picture up-to-date as on the sunrise of 1st April, 1971.

Size: The 1971 Census of India enumerated 547,949,809 persons comprising 283,936,614 males and 264,013,195 females. The present census count fell short by about 13 million from the projected population of 560 million (1st March 1971). Compared to the world's population, India's population constitutes nearly 15 per cent.

Growth : India's population which was 238 million in 1901 increased to 279 million in 1931 and to 548 million in 1971.

The rate of growth of India's population was slow till 1921 and since then it has tended to increase at a faster rate. During the 1911-21 decade the population decreased due to natural calamities and epidemics. In 1931 the population increased by 11·0 per cent from the previous Census. During the decade 1961-71 the population increased by 24·8 per cent which is the highest increase observed so far.

Growth of Population from 1901-1971

Year	Persons	Per cent Decade Variation
1901	238,396,327	
1911	252,093,390	5·75
1921	251,321,213	(—) 0·31
1931	278,977,238	11·00
1941	318,660,580	14·22
1951	361,088,090	13·31
1961	439,234,771	21·51
1971	547,949,809	24·80

Future Growth : The recent increase in India's growth rate is due to a fall in death rate and not due to any increase in birth rate. Death rate has declined by nearly fifty per cent during the past 70 years. Reliable figures of birth and death rates are not available in India because of the deficiency of the registration data. Efforts are being made by the Registrar-General of India to improve the quality of the registration data and a scheme called the Sample Registration System has been launched in different parts of India. The object of the scheme is to have sample areas, both urban and rural, in different States and to obtain reliable birth and death data in those areas. Most reliable estimates, however, point out that the **birth rate** in India in 1961 was around 43 and **death rate** around 21 per 1,000 population. The sample registration system has estimated that birth rate in 1972 was 36·6 and the death-rate 16·6. The birth rate in the rural areas was 3·84 and in the urban areas, 30·5, whereas, the death rate was 18·9 and 10·2 respectively. It is estimated that the death rate might decline still further and reach the low level of 10 per 1,000 population by 1980 or so. Birth rate would, therefore, be the crucial factor in determining the future growth of India's population.

State-wise Growth Rate: The decennial growth rate of 1961-71 shows that the highest rate was observed in the Union Territory of Chandigarh followed by Andaman and Nicobar Islands and Delhi. In case of States the highest rate was observed in Nagaland followed by Assam and Haryana. The differential growth rate is due to differences in birth and death rates and in internal migration rates.

Age Structure: One of the consequences of high birth rate is that India has a very 'young' population. Nearly 42 per cent of India's population is below the age of 15 years and only 12 per cent of the population is aged 50 years and over.

Rural-Urban : A very large proportion of India's population lives in rural areas, and urban population has grown from about 9 per cent in 1881 to about 20 per cent in 1971. Leaving aside the Union Territories, the most urbanised State in India is Maharashtra, in which about 31 per cent of the population lives in urban areas. Assam, Himachal Pradesh, Nagaland and Orissa States have less than 10 per cent urban population.

A little more than 52 per cent of the urban population of India lives in towns having a population of 100,000 and more. The corresponding figure for 1961 was 48·37 per cent. The growth of population in towns of large size is generally greater than in medium and small towns. In case of Class V towns (population size between 5,000 to 9,999), however, the population decreased during the decade 1961-71. As per 1971 Census, there are only 9 cities which have population of one million and above and these are Calcutta, Greater Bombay, Delhi, Madras, Hyderabad, Ahmedabad, Bangalore, Kanpur and Pune.

Sex Ratio : There are more males than females in India. In 1961 the sex ratio was 941 females per 1,000 males and in 1971 it decreased to 930 females per 1,000 males. Differential mortality by sex may be attributed to this disparity in sex ratio. Only in Kerala and Dadra & Nagar Haveli the sex ratio is favourable to females and in other places it is favourable to males. In West Bengal, Uttar Pradesh, Jammu & Kashmir, Haryana, Punjab, Nagaland, Assam, Delhi, Chandigarh, Himachal Pradesh and Andaman & Nicobar Islands the sex ratio is lower than 900 females per 1,000 males.

Literacy : Literacy which is defined as capacity to read and write with understanding in any language was as low as 6 per cent in 1891 and only 8 per cent in 1931. In 1971 it had increased to 29 per cent. Male literacy was found to be nearly 39 per cent and female literacy was found to be about 19 per cent. Rural areas have lower literacy rate than urban areas. Proportion of literates in the population of 5 years and more in age is 33·8 per cent, it being 43·4 per cent among males and 21·5 per cent among females.

Religion : According to the 1971 Census 82·7 per cent of India's population belonged to the Hindu religion and about 11·2 per cent to the Muslim religion. The percentage of the Christians and the Sikhs was 2·6 and 1·9 respectively. (Table at the end of chapter.)

Age at Widowhood: It was found in the 1911 Census that 17 per cent of the females were widows. This percentage declined to 15·5 in 1931 and to 11 in 1961. The mean age at widowhood of those who are widowed by age 45 was found to be 34 years in the 1951–61 decade and 34·8 years in the 1961–71 decade.

Fertility : The fertility of Indian women is high and between 6 and 7 children are born to a couple who remain married throughout the reproductive period. This average number is, however, reduced to 4 or 5 when all ever-married women, that is, those who are widowed, divorced or separated are considered.

The pattern of age-specific fertility among females between the ages 15-44 shows that highest fertility exists among females in the ages between 25 to 29 years. The fertility curve shows a low but significant rate in the ages 15-19 years, a sharp rise in the age group 20-24 years with the peak being reached between 25-29 years. The rate then tends to decline and the decline is very sharp after age 35.

Of the children born in a year roughly 55 per cent are of first-three order births and 45 per cent are of the fourth and higher orders. About 20·5 per cent are first order births, 18·1 per cent second order, 16·4 per cent third order, 14·5 per cent fourth order, 11·6 per cent fifth order and 18·9 per cent sixth and higher order births.

There is some evidence to indicate that fertility of those women who are educated above Matriculation and also of those who marry after the age of 19 is lower than of those who are less educated or marry earlier.

Occupational Category: According to the 1971 Census, roughly 33 per cent of the population of India is in the working force. About 53 per cent of the males and 12 per cent of the females are workers. Slightly larger proportion of the rural population is in working force. The work participation rate by residence shows that 33·8 per cent of the rural population (53·5 per cent male and 13·1 per cent female) is in working force whereas 29·3 per cent of the urban population (48·8 per cent male and 6·6 per cent female) is in working force. The maximum participation rate is in ago groups 25 to 59, it being around 95 per cent among males and around 20 per cent among females.

The work participation rate of 1971 cannot be compared with that of any of the earlier censuses because of change in definition. In the 1961 Census 43 per cent of the total population was recorded as workers. According to the Registrar-General of India, the concept of worker at the 1961 Census tended to inflate workers as persons who were basically non-workers like housewives, students, etc., were included in the category of workers even though their participation was very marginal.

Among the workers as given in the 1971 Census, nearly 43 per cent are cultivators, 26 per cent agricultural labourers and nearly 31 per cent are engaged in other occupations. In the rural areas nearly 52 per cent of the workers are cultivators, 31 per cent are agricultural labourers and 17 per cent are engaged in other occupations. In urban areas nearly 5 per cent of the workers are cultivators, 6 per cent agricultural labourers and 89 per cent are engaged in other occupations.

Some Demographic Characteristics of India, States and Union Territories

	Population (in '000)		Decennial Growth Rate	Sex-Ratio (Females per 1,000 Males) 1971	Density of Population per sq. km. 1971	Literacy Rate			Urban Population in 1971 (Per cent)
	1961	1971				1961	1971	Percentage Increase	
INDIA	439,073	547,950	24·80	930	178	24·03	29·46	22·60	19·91
Andhra Pradesh	35,983	43,503	20·90	977	157	21·19	24·57	15·95	19·31
Assam	11,128	14,958	34·71	897	150	27·47	28·72	4·55	8·87
Bihar	46,456	56,353	21·31	954	324	18·40	19·94	8·37	10·00
Gujarat	20,633	26,697	29·39	934	136	30·45	35·79	17·54	28·08
Haryana	7,590	10,037	32·23	867	224	19·93	26·89	34·92	17·66
Himachal Pradesh	2,812	3,460	23·04	958	62	21·26	31·96	50·33	6·99
Jammu & Kashmir	3,561	4,617	29·65	878	N.A.	11·03	18·58	68·45	18·59
Karnataka	23,587	29,299	24·22	957	153	25·40	31·52	24·09	24·31
Kerala	16,904	21,347	26·29	1,016	549	46·85	60·42	28·96	16·24
Madhya Pradesh	32,372	41,654	28·67	941	94	17·13	22·14	29·25	16·29
Maharashtra	39,554	50,412	27·45	930	164	29·82	39·18	31·39	31·17
Manipur	780	1,073	37·53	980	48	30·42	32·91	8·19	13·19
Meghalaya	745	1,012	31·50	942	45	18·47	29·49	59·66	14·55
Nagaland	369	516	39·88	871	31	17·91	27·40	52·99	9·95
Orissa	17,549	21.945	25·05	988	141	21·66	26·18	20·87	8·41
Punjab	11,135	13,551	21·70	865	269	26·74	33·67	25·92	23·73
Rajasthan	2,156	25,766	27·83	911	75	15·21	19·07	25·38	17·63
Tamil Nadu	33,687	41,199	22·30	978	317	31·41	39·46	25·63	30·26
Tripura	1,142	1,556	36·28	943	149	20·24	30·98	53·06	10·43
Uttar Pradesh	73,926	88,341	19·79	879	300	17·65	21·77	23·34	14·02
West Bengal	34,926	44,312	26·87	891	504	29·28	33·20	13·39	24·75
Andaman & Nicobar Islands	64	115	81·17	644	14	33·63	43·59	29·62	22·77
Chandigarh	120	257	114·59	749	2,257	51·06	61·56	20·56	90·54
Dadra & Nagar Haveli	58	74	27·96	1,007	151	9·48	14·97	57·91	0·00
Delhi	2,659	4,066	52·93	801	2,738	52·75	56·61	7·32	89·70
Goa, Daman & Diu	627	858	36·88	989	225	30·75	44·75	45·53	26·44
Lakshadweep	24	32	31·95	978	994	23·27	43·66	87·62	0·00
Arunachal Pradesh	337	468	38·91	861	6	7·13	11·29	58·35	3·70
Pondicherry	369	472	27·81	989	983	37·43	46·02	22·95	42·04

Some Demographic Characteristics of India, States and Union Territories

State/Union Territories	Proportion of Workers in 1971			Proportion of Workers by Occupation Categories in 1971			Mean Age at Marriage in Years in 1961	
	Male	Female	Total	Cultivator	Agri. labourer	Others	Male	Female
INDIA	52·50	11·85	32·92	43·34	26·33	33·33	21·6	15·8
Andhra Pradesh	58·22	24·16	41·39	32·18	37·93	29·90	22·2	15·3
Assam	48·88	5·45	28·35	56·85	9·58	33·57	25·7	18·5
Bihar	52·16	8·88	31·03	43·33	38·92	17·75	18·6	14·2
Gujarat	51·24	10·26	31·45	43·12	22·48	34·40	21·4	17·1
Haryana	47·27	2·41	26·44	49·08	16·21	34·71	—	—
Himachal Pradesh	52·43	21·69	36·95	70·64	4·17	28·19	21·7	15·6
Jammu & Kashmir	52·50	3·86	29·76	64·78	3·05	32·17	22·4	16·0
Karnataka	54·40	14·20	44·17	40·01	26·70	33·29	24·4	16·3
Kerala	45·00	13·49	29·12	17·80	30·70	51·50	26·1	19·7
Madhya Pradesh	53·74	18·65	36·72	52·86	26·56	20·58	18·4	13·9
Maharashtra	52·09	19·70	36·48	35·55	29·33	35·12	22·4	15·7
Manipur	45·31	23·62	34·57	67·00	3·65	29·35	24·7	19·8
Meghalaya	53·20	34·57	34·74	69·15	9·88	20·97	—	—
Nagaland	55·55	45·24	50·75	77·58	1·45	20·97	—	—
Orissa	55·32	6·81	31·22	49·16	28·28	22·56	21·8	16·3
Punjab	52·82	1·81	28·87	42·56	20·11	37·33	21·7	17·5
Rajasthan	52·09	8·34	31·24	64·92	9·31	25·77	19·1	14·2
Tamil Nadu	56·02	15·09	35·78	31·26	30·46	38·28	25·2	18·1
Tripura	49·43	4·83	27·79	54·41	19·97	25·62	24·0	16·2
Uttar Pradesh	52·24	6·71	30·94	57·80	19·95	22·25	18·8	14·4
West Bengal	48·83	4·43	27·91	31·97	26·46	41·57	24·2	15·9
Andaman & Nicobar Islands ..	62·10	5·53	39·55	13·77	4·69	81·54	25·1	16·9
Arunachal Pradesh	63·14	51·28	57·65	78·34	1·96	19·70	—	—
Chandigarh	53·96	5·70	33·29	29·26	14·78	55·96	—	—
Dadra & Nagar Haveli.. ..	55·43	38·96	47·17	72·45	16·96	10·59	—	—
Delhi	50·61	4·75	30·21	2·62	1·24	96·14	22·9	18·6
Goa, Daman & Diu	47·76	15·40	31·67	23·97	15·01	61·02	26·9	20·7
Lakshadweep	38·43	13·60	26·15	—	—	—	—	—
Pondicherry	48·65	10·94	29·90	11·85	32·81	55·34	—	—

Some Demographic Characteristics of India's Population, 1891-1971

Year	Population (in million)	Density per square mile	Sex ratio (Females per 1,000 males)	Percentage		Percentage of Population by religion				Percentage of literate and illiterate population		Number of persons per household	Average Age at marriage (in years)	
				Rural	Urban	Hindu	Muslim	Christian	Sikh	Literate	Illiterate		Male	Female
1891 ..	235·9	184	958	90·5	9·5	72·3	20·0	0·8	0·7	5·8	94·2	5·43	19·6	12·5
1901 ..	238·4	167	972	89·2	10·8	70·4	21·2	0·99	0·75	5·4	94·7	5·27	20·0	13·1
1911 ..	252·1	175	964	89·7	10·3	69·4	21·3	1·2	0·96	5·9	94·1	4·95	20·3	13·2
1921 ..	251·3	177	955	88·8	11·2	68·6	21·7	1·5	1·0	7·2	92·8	4·89	20·7	13·7
1931 ..	279·0	195	950	88·0	12·0	68·2	22·2	1·8	1·2	9·5	90·5	4·97	18·6	12·7
1941 ..	318·7	245	945	86·1	13·9	65·9	23·8	1·6	1·5	N.A.	N.A.	5·12	19·9	14·7
1951 ..	361·1	302	946	82·7	17·3	85·0	9·9	2·3	1·7	16·7	83·3	4·90	19·9	15·6
1961 ..	439·2	358	941	82·0	18·0	83·5	10·7	2·4	1·8	24·0	76·0	5·16	21·6	15·8
1971 ..	547·9	471	930	80·1	19·9	82·7	11·2	2·6	1·9	29·5	70·5	—	22·5	17·1

Religion-wise break-up

Major religious communities		Population	Percentage to total population	Percentage increase in 1961–71
Hindus	..	453,292,086	82·72	23·69
Muslims	..	61,417,934	11·21	30·85
Christians	..	14,223,382	2·60	32·60
Sikhs	..	10,378,797	1·89	32·28
Buddhists	..	3,812,325	0·70	17·20
Jains ..	..	2,604,646	0·47	28·48
Scheduled Castes		79,995,896	14·60	24·18
,, Tribes		38,015,162	6·93	27·23

Sex-wise rural-urban break-up of population

		Persons	Males	Females
Total	..	547,949,809	283,936,614	264,013,195
Rural	..	438,855,500	225,218,984	213,636,516
Urban	..	109,094,309	58,717,630	50,376,679

First Six States Area-wise : Madhya Pradesh (443.459 sq. kms.); Rajasthan (342,272 sq. kms.); Maharashtra (308,000 sq. kms.); Uttar Pradesh (294,364 sq. kms.); Andhra Pradesh (277,254 sq. kms.); and Gujarat (187,091 sq. kms.).

First Six States Population-wise : Uttar Pradesh (88,341,144); Bihar (56,353,369); Maharashtra (50,412,235); West Bengal (44,312,011); Andhra Pradesh (43,502,708); and Madhya Pradesh (41,654,119).

Languagewise Break-up : 84 million people or 15 per cent, speak languages other than the 15 listed in the Constitution.

The break-down of the population in terms of the 15 Constitutional languages is as follows (figures in million) : Assamese — 8·95 ; Bengali — 44·79 ; Gujarati — 25·87 ; Hindi — 162·57 ; Kannada — 21·70 ; Kashmiri — 2·43 ; Malayalam — 21·94 ; Marathi — 42·25 ; Oriya — 19·85 ; Punjabi — 16·44 ; Tamil — 37·69 ; Telugu — 44·75 ; Urdu — 28·60 ; Sindhi — 1·67 ; and Sanskrit — 2,212.

Most Thickly Populated States : (excluding Union Territories) (figures per sq. km.): Kerala (549); West Bengal (504); Bihar (324); Tamil Nadu (317); Uttar Pradesh (300); Punjab (269).

National Average Density: 178 per sq. km.

Density in Union Territories: (per sq. km.) (First three). Delhi (2,738); Chandigarh (2,257); Laccadive, Minicoy & Amindivi Islands (994).

Highest Population Growth Rate in States: Nagaland (39·88) per cent) : Manipur (37·53 per cent) ; Assam (34·71 per cent) ; Haryana (32·23 per cent) ; Jammu & Kashmir (29·65 per cent) ; Madhya Pradesh (28·67 per cent) ; Rajasthan (27·83 per cent).

Among Union Territories : Chandigarh (114·59 per cent) ; Andaman & Nicobar Islands (81·17 per cent); Delhi (52·93 per cent).

All India Sex Ratio: 930 females to 1,000 males. In 1961 the ratio was 941 females to 1,000 males.

Rank of cities population-wise

The following are nine metropolitan cities in India :—

1.	Calcutta Urban Agglomeration ..	7,031,382
2.	Greater Bombay	5,970,575
3.	Delhi Urban Agglomeration ..	3,647,023
4.	Madras Urban Agglomeration ..	3,169,930
5.	Hydèrabad Urban Agglomeration..	1,796,339
6.	Ahmedabad Urban Agglomeration	1,741,522
7.	Bangalore Urban Agglomeration ..	1,653,779
8.	Kanpur City Urban Agglomeration	1,275,242
9.	Pune Urban Agglomeration ..	1,135,034

A city is regarded as metropolitan when its population exceeds one million.

Population Growth in Metropolitan Cities During 1901-71

('000)

	1901	1951	1961	1971(1)	Percentage growth over 1901
Calcutta	933	2,698	2,927	7,031	653·5
Greater Bombay	812	2,966	4,152	5,970	635·2
Delhi	214	1,437	2,359	3,647	1,604·2
Madras	541	1,416	1,729	3,169	485·7
Hyderabad	448	1,129	1,251	1,796	300·8
Ahmedabad	185	877	1,206	1,741	841·0
Bangalore	161	789	1,206	1,653	926·7
Kanpur	202	705	971	1,275	531·1
Poona	164	600	600	1,113	578·6
	3,660	12,617	16,538	27,395	648·4

Note : (1) In 1971 population in respect of all metropolises except Greater Bombay which correspond to Municipal Corporation area relate to urban agglomerations in 1971 ; whereas in earlier years the figures relate to town town-groups. The concept of town-group, was made up of independent units not necessarily contiguous to one another but were to some extent independent. But the continuous spread including urban out-growths have been treated as an integrated urban area, now being called urban agglomeration in 1971 Census.

Population Projections upto 1986

(in Million)

Year	Males	Females	Total
1971	283·4	263·5	546·9
1974	301·0	280·2	581·2
1979	329·5	307·3	636·8
1984	354·1	331·7	685·8
1986	363·9	341·3	705·2

Regional Variation in the Economy

States, Union Territories	Percentage of Urban population		Per capita Income (in Rs.)	Investment on certain Industrial projects during 1951-68 (Rs. in million)	Financial Assistance by IBD during July 1964, June 1968 (Rs. in million)
	1961	1971			
Delhi	88·75	89·70	871·61	8	—
Union Territories	—	34·20	—	—	32·1
Maharashtra	28·22	31·17	468·54	499	613·1
Tamil Nadu	26·69	30·26	334·09	2,458	342·5
Gujarat	25·77	28·08	339·39	480	290·6
West Bengal	24·45	24·52	464·62	4,082	215·9
Karnataka	22·33	24·31	304·71	484	61·7
Punjab	23·06	23·73	451·31	407	14·7
Andhra Pradesh	17·44	19·32	287·01	873	160·1
Jammu & Kashmir	16·66	18·59	289·02	—	14·5
Rajasthan	16·28	17·63	267·43	305	49·2
Kerala	15·11	16·24	314·86	683	25·2
Madhya Pradesh	14·29	16·29	285·35	4,591	37·1
Uttar Pradesh	12·85	14·02	297·35	1,479	77·1
Bihar	8·43	10·00	220·69	3,565	91·3
Assam	7·42	8·82	333·34	402	01·2
Orissa	6·32	8·41	276·22	4,181	15·6
All India	17·97	19·91	334·54	24,497	2,041·9

ANDAMAN AND NICOBAR ISLANDS

(Union Territory)

HEADQUARTERS: Port Blair; **Population:** 26,218.

Area of the Territory: 8,293 sq. kms. (Andamans 6,340 sq. kms. Nicobars 1,953 sq. kms.); **Population:** 115,133; **Density:** 14 per sq. km.; **Sex ratio:** 644 females per 1,000 males; **Literacy:** 43·59 per cent.

No. of villages: 390.

Boundary: Islands in the Bay of Bengal.

The Andamans are a string of islands of various sizes, large and small, lying between 6° and 14° N latitude and from 92° and 94° E longitude in the Bay of Bengal. They have an average width of 24·13 kms. and an axis of about 321·8 kms. The northernmost 'Land-fall Island' is 901·13 kms. from the mouth of the river Hoogly. The headquarters Port Blair is about 1,255·25 kms. and 1,191 kms. from Calcutta and Madras respectively.

The main part of the Andaman group is composed of five large islands (Total number of islands, big and small is 265), *viz.*, North Andaman, Middle Andaman, South Andaman, Baratang and Rutland Islands generally known as the Great Andamans. To the south of the Great Andaman is the island of Little Andaman. These islands consist mostly of a mass of hills covered with dense tropical forests and separated by three straits and several creeks.

The Nicobar Islands (58 in number) from Car Nicobar in the north to Great Nicobar in the south intervene between Little Andaman and Sumatra. The southern island of Great Nicobar is about 480 kms. from Port Blair. These islands are partly hilly and partly flat. The most important harbour in the area is Nancowrie reputed to be the finest harbour in the east.

Population according to language spoken: Sanskrit: nil; Sindhi: 7; Tamil: 14,518; Telugu: 9,361; Urdu: 2,588; Assamese: 17; Bengali: 28,120; Gujarati: 159; Hindi: 13,982; Kannada: 201; Kashmiri: 8; Malayalam: 13,953; Marathi: 115; Oriya: 250; Punjabi: 1,024.

AGRICULTURE: Total reporting area is about 43,000 hectares. The principle crops are rice, coconut and arecanut. The estimated area under paddy cultivation during 1971–72 is about 8,557 hectares and the total production of rice was 13,325 tonnes Average yield of rice is 1.55 tonne per hectare. Commercial production of Rubber, Coffee, Red Oil Palm and spices like Clove, Cinnamon, Nutmeg and Black Pepper is considered good.

Forests: Forests cover an area of 7,468 sq. kms. These forests yield timber to the plywood and matchwood industries.

The species of timber found in the forest region are mainly Padauk, Gurjan, White Chuglam, Papita etc. The Forest Department exports approximately 35,000 cubic metres of timber to the mainland.

Animal Husbandry: Veterinary hospital: 1; Disease investigation laboratory: 1; Artificial insemination centres: 2; Artificial insemination sub-centres: 4; Key village units: 7; Veterinary dispensaries: 7; Veterinary out-post: 15; Govt. grassfarm: 1; Piggery demonstration unit: 1; Quarantine unit: 1.

Livestock: Total No. of livestock: 76,948; Poultry: 157,245.

Power Projects: A.C. Electric Supply in Port Blair was started in 1951. The present installed capacity of the Chatham and Phoenix Bay power stations is 2,996 kw.

Apart from Port Blair, electricity is available for the public at the following places. The installed capacity of the power house in (kw) is also given.

Wimberlygunj 96; Mayabunder 120; Diglipur 72; Rangat 72; Car Nicobar 96; Nancowrie 29·5; Biglapathy 44.5; Campbell Bay 72; Niel Island 23; Havelock 29; Baratang : 23; Katchal 29 and Kadamtalla 23.

INDUSTRIES

The main industries are saw milling, plywood manufacture, construction and forestry which provide employment to more than 11,000 workers. Other industries include boat building and repairing, timber, printing and book-binding, match splints and wood work.

The number of establishments and employees engaged in them respectively in 1972 were : Wood and cork : 17; 6,552; Transport and equipment : 9; 2,670; Miscellaneous industries : 31; 26,601; Electricity and power : 4; 347.

Labour : No. of Unions : 52; No. of Members : 7,126; No. of Strikes : 1; Man-days Lost : 786; Total employed : Industry : 17,000.

EDUCATION

	No. of Institution	Scholars	
		Boys	Girls
Schools			
Primary School	4	145	133
Junior Basic School ..	141	4,987	3,915
Senior Basic School ..	25	3,687	2,717
Higher Secondary School ..	15	3,638	2,643
Colleges			
Arts and Science	1	94	67
Teacher's Training School	1	27	51

PUBLIC HEALTH : All treatment, medical or surgical, is completely free. For specialised treatment, patients are sent to the mainland at Government expense.

The Gobind Ballabh Pant Hospital, Port Blair, is the largest civil hospital in this Territory having 192 beds. All types of treatment, except for cancer and mental diseases, are provided here. There is also a 50 bed T.B. hospital at Port Blair looked after by a T.B. Officer and a 20-bed isolation hospital at Port Blair under the charge of a Junior Medical Officer. Besides, there are 9 civil hospitals, two primary health centres and 55 dispensaries. The hospitals are located at Port Blair, Bamboofiat, Car Nicobar, Nancowry, Campbell Bay (Great Nicobar), Rangat, Mayabunder, Diglipur, Belliground and Long Island. The primary health centres are located at Wimberlygunj (South Andaman) and Diglipur (North Andaman). The total bed strength of hospitals and primary health centres is 545.

No. of Doctors : 43; Number of Nurses : 110; Amount spent on medicine and equipment : (1973-74) : Rs. 1,436,576.

COMMUNICATIONS : Length of motorable roads : 441 kms.; No. of State Transport buses : 52; No. of passengers carried by State Transport daily : 13,200.

Press : "Daily Telegrams" published from Port Blair in English and Hindi; Circulation 700.

Shipping : Two passenger-cum-cargo ships *viz.* *S.S. Muzaffari* and *M.V. Andamans* and two cargo ships *viz.* *M.V. Viswa Anand* and *M.V. Shompen* ply between mainland ports and Port Blair. The passenger vessels normally ply from Calcutta and Madras and sometimes from Visakhapatnam also.

As far as Inter-island communication is concerned, ferry vessels *viz.* *S.S. Cholunga*, *T.S.S. Yerawa* and *M.V. Onge* ply on a regular schedule to the Northern as well as Southern Group of Islands. In addition to the above vessels some other vessels ply in the narrow creeks and harbours carrying passengers and cargo to places inaccessible to the larger vessels. The *MV Little Andaman* and the *MV Yamuna* carry out ferry services between Port Blair and Rangat via creeks and via Havelock and Neil Island. The *MV Ganga* carries out harbour ferry services at Port Blair.

Harbours: Port and harbour facilities have been provided at Diglipur, Mayabundar, Rangat, Havelock, Neil, Port Blair and Hut Bay (Little Andaman) and at Malacca (Car Nicobar), Katchal, Kamorta and Campbell Bay in Nicobar.

GENERAL

Weather : The Islands are exposed to both monsoons with north easterly gale from November to January and south westerly gale from May to October. The weather is good only from January to April and to some extent in October. The average rainfall is 310 cms. The temperature varies between 21°C and 34°C throughout the year.

Panchayats : 39 gram panchayats and 39 nyaya panchayats have been established in the South, Middle and North Andamans. In the Nicobar group of islands, the traditional panchayats continue to function.

Banks: A branch of the State Bank of India at Port Blair and another branch at Rangat in the Middle Andamans conduct Government treasury business. Co-operative banks function at Port Blair, Diglipur, Wimberlygunj and Mayabander and two branches of Syndicate Bank function at Port Blair and Campbell Bay.

Tourism : Guest houses and tourist homes provide sizeable accommodation. Dormitory type accommodation for 20 persons is also available.

ANDHRA PRADESH STATE

CAPITAL: Hyderabad. **Area :** 220·36 sq. kms. **Population :** 1,796,339.

Area of the State : 276,754 sq. kms. **Population :** 43,502,708. **Density :** 157 per sq. km. **Sex Ratio :** 977 females per 1,000 males. **Literacy :** 24·56 per cent.

The headquarters of the districts are the towns of the same name except for the following districts with the headquarters in the brackets : East Godavari (Kakinada); Krishna (Machilipatnam) : Medak (Sangareddy), Prakasam (Ongole), and West Godavari (Eluru).

Major Cities : with area in sq. kms. and population respectively.

Hyderabad Town Group : 220·36 — 1,796,339; Vijayawada : 24·14 — 317,258; Guntur : 30·02 — 269,991; Visakhapatnam : 29·14 — 355,045; Warangal : 62·16 — 207,520; Rajahmundry : 10·59 — 165,912; Kakinada :

24·53 — 164,200; Machilipatnam: 24·86 — 112,612; Kurnool: 15·02 — 136,710; Nizamabad: 36·85 — 115,640; Tenali: 7·94—102,937; Eluru: 12·02—127,023; Nellore: 13·68 — 133,590.

District	Area in sq. kms.	Population
Adilabad	16,133	1,288,348
Anantapur	19,125	2,115,321
Chittoor	15,763	2,285,536
Cuddapah	15,356	1,577,267
East Godavari	10,940	3,087,262
Guntur	11,377	2,844,488
Hyderabad	7,707	2,791,762
Karimnagar	11,824	1,963,928
Khammam	15,866	1,369,892
Krishna	8,734	2,493,574
Kurnool	18,799	1,982,090
Mahbubnagar	18,419	1,932,082
Medak	9,685	1,467,944
Nalgonda	14,242	1,817,738
Nellore	13,058	1,609,617
Nizamabad	7,969	1,313,268
Prakasam	17,620	1,919,905
Srikakulam	9,743	2,589,991
Visakhapatnam	13,739	2,805,366
Warangal	12,875	1,870,933
West Godavari	7,780	2,374,306

No. of Villages : (1961) 27,084 ; **No. of Towns :** 207; **No. of Talukas :** 195.

Boundaries : The State is surrounded in the east by the Bay of Bengal; in the south by Tamil Nadu; in the south-west by Karnataka; in the north-west by Maharashtra, in the north by Madhya Pradesh and in the north-east by Orissa.

State Language : Telugu is the language of the State with Urdu also spoken by a large section.

AGRICULTURE : (See main chapter on 'Agriculture').

Land Reforms: Legislation has been passed in the State and the land has been divided into eleven categories. The first six fall under wet land and the remaining under dry category depending upon the irrigation and fertility of the soil.

The ceiling under these reforms vary from 4·5 hectares to 21·85 hectares. The surplus land available under land reforms law is 450,000 hectares in the State.

MAJOR IRRIGATION PROJECTS : (See chapter on Irrigation).

MAJOR POWER PROJECTS : (See chapter on Power Projects). Power generation from all sources rose from 784·4 million kwhs in 1961 to 1399·5 million kwhs in 1966. During 1971 and 1972 it stood at 2,875·3 million kwhs and 3,046·0 million kwhs respectively. The total installed capacity stood at 668 MW at the end of 1973.

INDUSTRIES : Cycle and cycle accessories, Steel furniture, Scientific instruments, Radios, Tape recorders, Electric measuring instruments, Automobile parts, Air conditioners, Safety razor blades, PVC Cables, Switchgear, Electrical accessories, Stainless steel vessels, Agricultural implements.

Cottage Industries : There are about 600,000 handlooms in the State that provide employment to about three million persons.

The handloom goods exported from the State are about 20 per cent of the export from the country.

The important varieties of handloom goods exported are as follows: Bleeding Madras, Madras Handkerchiefs, Lungies, Sarongs; Silks—printed, Tussar.

Industrial Development Agencies : Department of Industries, Government of Andhra Pradesh, Hyderabad; Directorate of Commerce & Export Promotion, Hyderabad; Directorate of Handlooms & Textiles, Hyderabad; Andhra Pradesh Industrial Development Corporation, B/1-174, Fateh Maidan Road, Hyderabad 500004; Andhra Pradesh Mining Corporation Ltd., 11/5/401-1, Red Hills, Hyderabad 500004; Andhra Pradesh State Agro-Industries Corporation Ltd., Intekhab Manzil, 10-2-3, A. C. Guards, Hyderabad 500004; Andhra Pradesh State Financial Corporation, 5-9-104, Chirag Ali Lane, Hyderabad 500001.

Industrial Estates : Industrial estates have been established in the following places, viz.: Visakhapatnam, Samalkot, Vijayawada, Cuddapah, Nandyal, Sanatnagar, Moula-ali, Patancheru, Vicarabad, Mahbubnagar, Suryapet, Karimnagar, Nirmal, Mancherial, Nizamsagar, Kothagudem and Warangal.

Besides the above, assisted private industrial estates are functioning at Amadalavalasa, Vijayanagaram, Rajahmundry, Eluru, Palacole, Machilipatnam, Guntur, Nellore, Chittoor, Tirupati, Proddutur, Anantapur and Adoni.

LABOUR (1971) : Strikes 56; Lock-outs 4; Total disputes 60; No. of workers involved 19,000; Man-days lost, 171,000.

Employment (Dec. 1971). (*a*) *Public :* Central Govt. 146,000; State Govt.: 237,000; Quasi Govt.: 154,000; Local bodies: 197,000; (*b*) *Private Sector :* 212,000.

(1) No. employed through Employment Exchanges: 26,000; (2) No. of applicants on the live register: 339,000.

EDUCATION : Statistics for 1970-71 with No. of Schools and Students respectively are:

Pre-primary: 62 — 3,560; Primary: 37,349 — 3,223,292; Upper Primary: 3,000 — 771,143; Secondary: 2,994 — 994,266; Schools for special education: 101 — 5,915; Schools for oriental studies: 96 — 11,048; Teacher Training Schools: 52 — 3,036.

Colleges : (1971-72): Engineering Colleges: 7; Polytechnics: 21; Agricultural Colleges: 3; Veterinary Colleges: 2; Medical Colleges: 8.

Budget Allocation : General Education: Rs. 35·20 million; Technical Education: Rs. 30 million.

Universities : Andhra Pradesh Agricultural University, Dilkush, Hyderabad 500004; Andhra University, Waltair; Osmania University, Hyderabad 500007; and Sri Venkateswara University, Tirupati.

PUBLIC HEALTH : Hospitals (1971): (Allopathic) Hospitals 270; hospitals for special treatment 27; Dispensaries 1,107; Beds: 21,531; Govt. doctors: 3,548; Ayurvedic hospitals and dispensaries: 1,214; Unani hospitals and dispensaries: 103.

Leprosy Control : It is estimated that there are 600,000 cases of leprosy in the State. National Leprosy Control Programme was chalked out and the State established 16 Leprosy Subsidiary Centres, 2 Leprosy Control Units, 2 Training Centres and 148 Survey Education and Treatment centres in addition to the existing Leprosy clinics at Karwar, Hyderabad. 35 S.E.T. Centres were sanctioned under Leprosy Control Programme.

Family Planning : Facilities are provided through 416 Rural Centres and 193 Urban Centres. Besides there are 67 Mobile Sterilization Units and 21 Mobile IUCD units. During 1971-72, the State achieved 272,000 sterilizations and 19,004 IUCD insertions.

Communications: The following is the vehicular position as on March 31, 1972.

Stage carriages: 6,641; Goods vehicles: 19,307; Cars and Jeeps: 36,478; Motor cycles and scooters: 47,142; Taxis: 2,243; others: 9,186.

State Transport (November 1, 1971): Buses 2,560 + 31 (Trailers); Other Departmental vehicles 248; No. of Passengers carried by State Transport as on 1-11-1971 979,000.

The total road kilometrage including National Highways and State Highways is 23,048(1971).

PRESS (Dailies):

Name	Town	Language
Indian Express	Vijayawada	English
Deccan Chronicle	Secunderabad	-do-
Indian Express	Hyderabad	-do-
Andhra Prabha	Vijayawada	Telugu
Andhra Jyoti	-do-	-do-
Andhra Patrika	-do-	-do-
Visalandhra	-do-	-do-
Andhra Bhoomi	Secunderabad	-do-
Andhra Janata	Hyderabad	-do-
Siasat	-do-	Urdu
Rahnuma-e-Deccan	-do-	-do-
Milap	-do-	-do-

Rivers : The Godavari, the Krishna, the Pennar, the Papagni, the Tungabhadra, the Musi, the Manjra, the Chitravati, the Vamsadhara and the Langulya.

ARUNACHAL PRADESH (NEFA)

(Union Territory)

CAPITAL: Itanagar (since April 20, 1974) — a newly built-up township was inaugurated by Pres. V. V. Giri. **Area of Territory :** 83,578 sq. kms. **Population :** 467,511; **Sex Ratio :** 861 females per 1,000 males; **Literacy :** 11·29 per cent.

Districts : With headquarters in brackets and population: Kameng (Bomdila) 86,001; Subansiri (Ziro) 112,928; Siang (Along) 108,247; Lohit (Tezu) 62,865; Tirap (Khonsa) 97,470.

Towns and Population: Pasighat: 17,780; Along: 4,920; Tezu: 4,182; Bomdila: 3,172.

No. of Villages : 2,973.

Boundaries : The Territory is bound by Bhutan in the west, Tibet in the north-west, China in the north and north-east, Assam in the east and south, Burma in the east and south-east and Nagaland in the south-west.

Languages : Tribal dialects.

AGRICULTURE (As in March, 1973): Area under cultivation: 86,800 hectares; Land Development: 23,000 hectares; Area brought under Irrigation: 22,673 hectares; Annual Food Production: 84,000 tonnes; Additional increase in Food Grains: 12,000 tonnes; Agricultural Farms: 15; Horticultural Nurseries: 9; People's Horticultural Gardens: 139; Govt. Fish Farms: 7; People's Fish Farms: 10; and Village Fish Ponds: 1,215.

Forests : Sixty per cent of the total area is under forest whilst 6,980 sq. kms. have been brought under reservation upto March, 1973.

Wild Life : The Territory has rich fauna and flora. There are wild elephants, bisons, buffaloes, tigers, leopards and various kinds of deers, bears, pigs, snakes, and wild goats. Peculiar to the Territory are the following — takin, musk deer, lesser panda, clouded leopard and mountain goat.

INDUSTRIES : There are no major industries in the Territory. Three medium and 11 small-scale industries are functioning under private co-operative sectors.

Training Production Centres : There are 21 training and 24 production centres in the Territory. Training in various trades such as weaving, carpentry, black-smithy, silver-smithy, wood-carving, bell-metal work, carpet weaving, cane and bamboo work, tailoring, knitting, painting, etc., is imparted from the above centres besides producing articles on a mass scale. An Industrial Training Institute at Roing gives training in technical trades.

Labour (1972): Total workers 269,542 (Males: 158,623; Females: 110,919); Cultivators: 211,160 (Males: 105,903; Females: 105,257); Agricultural labourers: 5,292 (Males: 2,952; Females: 2,340); Other workers: 53,093 (Males: 49,768; Females: 3,322).

EDUCATION : During 1970–71—There were 571 Institutions classified as follows:—College—1, Higher Secondary Schools—7, High Schools—9, Middle—47, Lower Primary—503, Nursery Schools—3.

Sex-wise enrolment at school stage during 1970-71.

	Boys	Girls	Total
Class I to V	16,788	4,183	20,971
Class VI to VIII ..	1,322	234	1,556
Class IX to XI ..	429	73	502
	18,539	4,490	23,029

PUBLIC HEALTH: Figures for 1972-73. No. of patients treated: 447,757; No. of Hospitals: 6; Dispensaries: 89; No. of beds 1,190; No. of Doctors sanctioned: 146; Present: 138; No. of Pharmacists sanctioned: 134; Present: 114; No. of Nurses: 143; There was one doctor for every 3,387 persons, a nurse for every 3,529 persons and one Hospital/Dispensary for every 4,000 persons.

COMMUNICATIONS : (1972–73) Roads — 825·20 kms.; Porter tracks—12·80 kms.; Mule paths—668·33 kms.

GENERAL : The North-Eastern Areas (Reorganisation) Act of 1971 passed by Parliament on December 21, 1971 changed the status and name of NEFA. It became Arunachal Pradesh with the status of a Union territory. It was formally inaugurated on January 20, 1972.

Rivers : The Brahmaputra (locally known as the Siang in hill sector and the Dibang when it reaches the plains), the Dibang, the Lohit and the Subansiri.

Rainfall : The monsoon sets in from May-June and continues till the end of September. The average annual rainfall at Bomdila is 1,019 mms, Pasighat—5,792 mms, Tezu—4,071 mms, and Changlang—1,988 mms. The snow line starts from about 3,962 metres altitude and the whole of the northern region along the international boundary is under snow during the winter months.

Tribes : About 50 distinct languages and dialects are spoken. Each tribe is divided into a number of exogenous clans. As a general rule, the tribes do not intermarry. A broad list of the main tribes district-wise is given below :

Kameng District :—Monpa, Sherdukpens, Bagni, Aka, Khowa, Miji, Sulung, Bangro.

Subansiri District :—Tagin, Nishi, Apatani, Bangro, Mikir, Hill Miri, Sulung.

Siang District :—Adi, a general name for a number of tribes such as Gallong, Minyong, Padam, Pasi, Bori, Bokar, Pailibo, Ramo, Milang etc., Khamba Memba and Hill Miri.

Lohit District :—Padam, Mishi, Singpho, Khampti.

Tirap District :—Nocte, Singpho, Wancho.

ASSAM STATE

CAPITAL : Dispur. **Population of the Capital :** N.A.

Area of the State : 78,466·28 sq. kms. ; **Population :** 14,630,422 ; **Density:** 150 per sq. km. ; **Sex Ratio :** 901 females per 1,000 males ; **Literacy :** 28·81 per cent (Males 37·74 per cent ; Females : 18·91 per cent).

Districts	Head-quarters	Area in sq. kms.	Population
Goalpara	Dubri	10,378	2,220,644
Kamrup	Gauhati	9,852	2,865,706
Darrang	Tezpur	8,725	1,733,311
Lakhimpur	North Lakhimpur	12,792	711,600
Dibrugarh	Dibrugarh		1,411,119
Nowgong	Nowgong	5,612	1,676,965
Sibsagar	Jorhat	8,943	1,831,141
Cachar	Silchar	6,961	1,711,953
Mikir Hills	Diphu	15,224	377,758
North Cachar Hills	Haflong	@	75,739
Khasi & Jaintia Hills		10	18,819

Major Cities : (Over 100,000 population): Gauhati: Population 122,981. *Other cities* with their population ; Dibrugarh 80,344 ; Tinsukia 55,392 ; Nowgong 52,892 ; Silchar 52,612 ; Tezpur 39,915 ; Jorhat 30,486.

No. of Villages : Inhabited : 25,702 ; Un-inhabited: 1,565.

State Boundaries : The State is bound by Bhutan and Himalayan ranges in the north, Arunachal Pradesh in the north-east, Nagaland, Manipur and Burma in the east, Bangla Desh and Tripura in the south and south-west and West Bengal in the west.

AGRICULTURE

Assam is primarily an agricultural state. Agriculture sustains about 72 per cent of its population but only one third of its area is cropped.

The State is divided into the plains of Brahmaputra valley and the hill divisions. The plains are covered by most fertile alluvial soils which are suitable for growing rice, wheat, sugarcane, cotton, banana, tobacco etc. The hilly areas are suitable for cultivation of fruit crops. Assam is also known for its colourful orchards which have a good export potential.

Rice is the most important foodgrain grown in the State and accounts for more than 72 per cent of the total gross area under crops. Other important crops are pulses, sugarcane, oilseeds, potato and jute. (For further details see chapter on "Agriculture.")

Land ceiling : 50 bighas (7·5 hectares) per family.

Commercial Crops : Tea with 7 per cent and jute with 5 per cent of the total sown area form the two largest commercial crops.

Forests : The forest area covers about 47,900 sq. kms. or nearly 39 per cent of State's total area.

It can broadly be classified into four categories, viz. reserved forests (16,800 sq. kms.), protected forests (300 sq. kms.), unclassed forests (24,400 sq. kms.) and private forests. The forests yield cane, thatch, bamboo, agrawood, keitha and medicinal plants.

Fisheries : The main sources of fish production are the rivers and their tributaries. Fish landing from inland fisheries during 1973-74 was 32,000 tonnes.

Irrigation and Power Projects : See chapter on "Irrigation and Power Projects."

INDUSTRIES

A bicycle factory, a spun silk mill, two cotton spinning mills, some re-rolling and fabrication units, a mixed fertiliser plant, a hardboard factory, refineries at Gauhati and Digboi, jute mill at Silghat, a sugar mill at Baruabamungaon (a co-operative enterprise) and fruit processing plant.

Later, two major projects, viz., Noonmati Refinery (Third Plan) and Namrup Fertiliser plant (spilled over to annual ad hoc plans) both in the Central sector and a third, the Gas Distribution Project (the Assam Gas Company) in the State Government sector were established. The Noonmati Refinery has led to the establishment of India Carbon Products Ltd. During the Third Plan the State Government took over from the private sector the implementation of the Chirra Cement Project which started production in 1966.

The new industries which are being set up in the Central sector are a refinery, paper mills at Nowgong and Cachar districts, a petro-chemical complex at Bongaigaon. A power tiller factory, a cigarette factory, and a cement factory at Bokajan (Mikir Hills).

Other industrial establishments include (1) Asoka Paper Mills Ltd. at Jogighopa, (2) Assam Alkali Allied and Chemicals Ltd., Jogighopa and Assam Petro-Chemicals Ltd., Namrup.

Steps have been taken by the State Government for setting up a sugar mill at Cachar at a cost of Rs. 26·00 million.

Tea industry plays an important role in the State's economy contributing nearly 11 per cent towards the State income.

Industrial Estates : Have been established at Gauhati, Nalbari, Dhekiajuli, Tinsukia, Jorhat, Badarpur, Nowgong and Sibsagar.

@ Area included in Mikir Hills.

Production : Trends of output of selected industries during 1972 are as follows :

Tea (million kgs.) 240·00; Sugar (million kgs.): 10·70; Matches (million gross boxes): 5·2; Fertiliser (1971): 89,000 tonnes; Commercial Plywood: 4·0 million sq. metres.

INDUSTRIAL DEVELOPMENT AGENCIES

Assam Industrial Development Corporation, Gauhati; Small Industries Development Corporation, Gauhati; Small Industries Service Institute (Government of India), Gauhati; Credit Guarantee Association, Gauhati; Assam Agro-industries Development Corporation, Gauhati; The Assam State Warehousing Corporation, Shillong.

Labour: (Oct. 1971) No. of unions : 286; No. of strikes (1970): 77; No. of lock-outs (1970): 7; Man-days lost due to strikes and lock-outs : 122,025.

Employment Exchange : The distribution of no. of applicants in respect of occupation available in the live register for the year 1972 can be seen in the following table.

Professional, technical and related workers: 2,181; administration, executive and managerial workers: 8; clerical and related workers : 959; salesman : 43; farmers, fishermen, hunters and related workers : 14,769; miners, quarry-men and related workers : 10; workers in transport and communication : 1,964; craftsmen, production, process works and labour not elsewhere classified : 10,548; service, sports and related workers: 3,583; workers not classified by occupations : 64,521.

EDUCATION (1971-72)

The number of educational institutions and number of pupils respectively are given below :—

Pre-primary schools : 68; 2,388; Primary and Junior basic schools : 18,035; 1,398,796; Senior Basic schools/Middle schools: 3,083; 372,446; High schools/Higher Secondary schools : 1,342; 391,492; Sainik school : 1; 462; Agriculture school : 1; (Not available); Commerce schools : 24; 5,123; Musical, Dancing : 24; 19,218; Nursing and Midwifery : 4; (Not available); Basic Training schools : 24; 1,452; Non-Basic Training schools : 8; 929; Pre-Primary Teachers training school: 1; 21; Technical schools for Arts and Crafts : 9; 1,517; Survey school : 1; 230; Colleges for general education : 88; 55,659; Colleges for professional education : 28; 11,843; Universities 3; (Not available).

Universities : *Assam Agricultural University*, Jorhat-785004; *Gauhati University*, Jalukbari, Gauhati-781014; *Dibrugarh University*, Dibrugarh.

Direct expenditure on education is about Rs. 141 million.

PUBLIC HEALTH (1971-72)

Hospitals (Govt.) : 63; Beds : 5,382; Doctors : 5,676: Nurses : 1,754; Dispensaries : 422; Primary health centres 109; Patients treated in hospitals and dispensaries — Indoor patients : 1,747; Outdoor patients : 55,916; No. of Medical Colleges : 3.

COMMUNICATIONS

Vehicles of different types (1971) were : Buses : 2,466; Motor cars : 13,980; Motor cycles : 4,903; Taxi cabs : 739; Private carriers : 6,263; Public carriers : 5,554; Trailers : 2,921; Tractors : 3,081; Government vehicles : 4,099; Auto-rikshaws : 164; Others : 426; Total : 43,869.

Roads : Though at present rather poorly connected by roads, the State should have a road kilometrage of 31,428 by 1981 under its 20 Year Road Plan. The present position is P.W.D. roads (1970-71): Black topped : 3,682 kms.; Metalled : 17 kms.; Gravelled : 10,868 kms; Earth : 2,355 kms.; Bridle-roads : 160 kms.; Total : 17,084 kms.

Railways : The length of railways was 2,108 kms. in 1971-72.

Inland Waterways : The length of internal waterways is more than 9,600 kms. of which 1,600 kms. is navigable by steamers and large country boats.

Press

Leading Dailies	Town	Language	Circulation
The Assam Tribune	Gauhati	English	23,534
Assam Express	—do—	—do—	N.A.
Dainik Assam	—do—	Assamese	19,520
Dainik Janmabhumi	—do—	—do—	N.N.

Airports : The important airports are Borjhar (Gauhati), Mohanbari (Dibrugarh), Salonibari (Tezpur), Rouriah (Jorhat) and Kumbirgram (Silchar).

GENERAL

Rainfall : The normal rainfall in the plains is 2,380 mms. and that of the hills is 2,550 mms.

Rivers : The Brahmaputra and her tributaries : the Subansiri, the Bhareli, the Dhansiri, and the Manas.

Flood Protection : The turbulence of River Brahmaputra causes widespread havoc all over Assam. About Rs. 260 million had been spent on protection works until the beginning of Fourth Plan. The Brahmaputra Flood Control Commission has calculated that short term measures spread over 5–6 years will cost Rs. 1,000 million and long-term measures such as building dams on the Dihang and Subansiri Rs. 400 million. At present Rs. 40–Rs. 50 million are being spent every year.

High Court : The Gauhati High Court serves Meghalaya, Assam, Manipur and Mizoram.

BIHAR STATE

CAPITAL : Patna. **Area :** 71·69 sq. kms. **Population :** 475,300.

Area of the State : 173,876 sq. kms. **Population of the State :** 56,353,369 (1971). **Density :** 324 per sq. kms. **Sex Ratio:** 954 females per 1,000 males. **Literacy:** (1971) : 19.9 per cent (Males : 30.69, females : 8.7).

No. of Towns : 202; **No. of Development Blocks :** 587. **No. of Villages :** 77,967.

State Boundaries : The State is bound by Mirzapur, Ghazipur, Ballia and Deoria districts of Uttar Pradesh in the north-west; Nepal in the north; Jalpaiguri, Malda, Birbhum and Purulia districts of West Bengal in the east; Mayurbhanj and Sundargarh districts of Orissa in the south and Surguja district of Madhya Pradesh in the south-west.

State Language : Hindi. Other prominent languages spoken in the State are Urdu and Bengali.

Districts	Head-quarters	Area in '000 sq. Kms.	Population (million)
Aurangabad	Aurangabad	4·4	1·292
Begusarai	Begusarai	1·9	1·147
Bhagalpur	Bhagalpur	5·7	2·091
Bhojpur	Arrah	4·0	1.995
Darbhanga	Darbhanga	2·4	1.517
Dhanbad	Dhanbad	3·9	1.466
East Champaran	Motihari	4·3	1.956
West Champaran	Bettiah	4·9	1.587
Gaya	Gaya	4·3	1.924
Giridih	Giridih	6·9	1.374
Gopalganj	Gopalganj	1·4	1.117
Hazaribagh	Hazaribagh	11·2	1.645
Katihar	Katihar	4·0	0.942
Madhubani	Madhubani	3·5	1.892
Monghyr	Monghyr	7·9	2.745
Muzaffarpur	Muzaffarpur	3·2	1.909
Nalanda	Biharsharif	2·3	1.306
Nawadah	Nawadah	3·6	1.240
Palamau	Daltonganj	12·7	1.504
Patna	Patna	3·2	2.250
Purnea	Purnea	7·0	3.000
Ranchi	Ranchi	18·3	2.611
Rohtas	Sasaram	7·3	1.943
Saharsa	Saharsa	5·9	2.350
Samastipur	Samastipur	2·9	1.825
Santal Parganas	Dumka	14·1	3.187
Saran	Chapra	3·2	2.035
Singhbhum	Chaibasa	13·4	2.438
Sitamarhi	Sitamarhi	2·7	1.583
Siwan	Siwan	2·3	1.127
Vaishali	Hajipur	2·0	1.349

Source: Director of Census Operations, Bihar, Census of India 1971, Bihar, Primary Census Abstracts, March, 1973.

Major Cities (over 100,000 population—1971)

Name	Area sq. kms.	Population
Bhagalpur	30·17	172,202
Bihar Sharif	19·34	100,046
Darbhanga	19·18	132,059
Gaya	28·62	179,884
Jamshedpur	63·81	341,576
Monghyr	17·50	102,474
Muzaffarpur	18·57	126,379
Patna	71·69	475,300
Ranchi	48·61	175,934

AGRICULTURE

The main crops of the State are rice, wheat, barley, maize, jute, potato and sugarcane. Rice and wheat occupy an area of 6.59 million hectares out of the total net sown area of 8.45 million hectares in 1970-71.

(Also see chapter on "*Agriculture*" for production details.)

Ceiling on Land : A ceiling of 6·0705 hectares to 18·211 hectares for a family of five and an additional allowance of one tenth subject to a maximum of half the ceiling limit to each additional member.

Fisheries : (See chapter on "Fisheries".)

Irrigation and Power Projects : See chapter on "Irrigation and Power".

INDUSTRIES (with no. of units)

Steel Plants 3, Cement Plants 7, Oil Refinery 1, Copper Smelter 1, Lead Smelter 1, Carbonisation Plant 1, Glass Works 5, Ceramic Works 4, Asbestos Plant 1, Coal Washeries 11, Locomotive factory 1, Tobacco factory 1, Jute mills 3; Sugar mills 23; Cold storages 125; Fertiliser Plants 2.

INDUSTRIAL DEVELOPMENT AGENCIES

(See chapter on State Corporations.)

INDUSTRIAL PROJECTS

During the Fourth Plan the Government had spent Rs. 70·00 million for large and medium industries, the break-up of which is as follows :—

State industrial projects: Rs. 13·5 million; Development of industrial areas : Rs. 17·4 million ; Assistance to Bihar State Industrial Development Corporation : Rs. 25.5 million ; Bihar State Financial Corporation : Rs. 10 million ; and other schemes : Rs. 3.6 million.

An electric equipment factory has been constructed with a total investment of Rs. 22.5 million.

The State Government has recently completed two industrial projects, a spun silk mill at Bhagalpur and a modern rice mill at Bikramganj. The Food Corpn. of India has also constructed a modern rice mill at Champatia (West Champaran Dist.).

Small-Scale Industries : During the Fourth Plan the Government had spent Rs. 70 million on small-scale industries the break-up of which is given below

Handlooms : Rs. 8 million ; Powerlooms : Rs. 3 million ; Small-Scale Industries : Rs. 38·5 million ; Industrial Estates and Areas Rs. 9·6 million ; Handicrafts : Rs. 4·1 million ; Sericulture : Rs. 6·8 million; Khadi and Village Industries : Rs. 0·5 million.

LABOUR

Factories and Employment : Following is the list of some factories and the number of people employed. Metal Products : 356 ; 2,689 ; Machinery (except electrical) 419 ; 36,242 ; Electricals : 52 ; 4,794 ; Transport Equipment : 351 ; 18,808 ; Grain Mill Products : 6,942 ; 21,612 ; Bakery Products : 50 ; 869 ; Sugar Factories and Refineries : 81 ; 13,751 ; Confectioneries and Chocolates : 6 ; 720 ; Food Preparations : 690 ; 4,692 ; Beverages : 7 ; 216 ; Tobacco : 83 ; 3,770 ; Textiles : 45 ; 7,712 ; Footwear : 5 ; 1,963 ; Wood and Cork (except furniture) : 588 ; 4,183 ; Furniture and Fixtures : 34 ; 528 ; Paper & Paper Products : 10 ; 3,446 ; Printing, Publishing and Allied Industries ; 489 ; 5,244 ; Leather and Leather Products : 5 ; 584 ; Rubber and Rubber Products : 33 ; 202 ; Chemicals and Chemical Products : 25 ; 6,472 ; Miscellaneous Chemical Products : 94 ; 2,695 ; Products of Petroleum & Coal : 31 ; 5,313 ; Structural Clay Products : 104 ; 11,262 ; Glass and Glass Products : 11 ; 3,288 ; Pottery, China and Earthernware : 9 ; 770 ; Cement : 7 ; 4,444 ; Non-metallic Mineral Products : 327 ; 16,564 ; Basic Metal Industries—Ferrous : 45 ; 34,164 ; Non-ferrous : 17 ; 2,720. (Source : Statistical Abstract India — 1969.)

Employment in Factories : (1970) : No. of registered factories : 18,718 ; No. of working factories : 16,503 ; No. of workers : 278,177 ; No. of workers employed daily : Men 268,706 ; Women : 8,673 ; Adolescents : 699 , Children : 99 ; Employment by State Electric Supply : 26,387 ; Employed in Mines : Coal : 197,969 ; Copper : 4,041 ; Iron Ore : 10,645 ; Lime Stone : 6,801 ; Manganese : 96 ; Mica : 10,584 ; Stone : 5,288 ; Other mines : 8,138. Total mine workers : 243,562.

Employment in Government : Central Government Establishments : 197,700 ; State Government Establishments : 256,200 ; Quasi Government Establishments : 147,700 ; Local Bodies : 145,200.

Employment Exchanges : (1971) : 23 ; Registrations : 426,027 ; No. of applicants on live register of employment exchanges : 4.371 million ; Professional, Technical and related workers : 26,238 ; Administrative, Executive and Managerial : 194 ; Clerical/Sales : 19,497 ; Agricultural, Dairy and related works : 1,454 ; Miners, Quarrymen : 1,388 ; Transport and Communications Occupation : 6,666 ; Craftsmen and Production Process workers : 68,250 ; Coolies, Chowkidars and Sweepers : 960 ; Other labourers : 120,192 ; Persons without professional or vocational training : 174,829 ; Total : 419,668 ; No. of applicants placed in employment through Employment Exchanges : 34,871.

No. of Industrial Disputes : (1971) 127 ; Workers involved : 24,772 ; Man-days lost : 239,688.

EDUCATION

The State Government provides free and compulsory primary education for all children of the age-group 6–11. There are 48,210 primary schools with 5·3 million pupils and 103,000 teachers. The number of pupils in the middle school, in the age-group of 11–14, is 1,043,000. The number of high school attending pupils is 733,569. There are estimated 2,681 secondary schools and about 1,000 specialised schools.

Universities : Bhagalpur University, Bhagalpur ; Bihar University, Muzaffarpur ; Kameshwar Singh Sanskrit Darbhanga University, Darbhanga ; Magadh University, Bodh Gaya ; Patna University, Patna 800005 ; Ranchi University, Ranchi 834001 ; Mithila University, Darbhanga 864004 and Agricultural University, Dholi Muzaffarpur 842001. There are 328 science and arts colleges.

(See chapter on "Education" for more particulars.)

PUBLIC HEALTH (Only Government Institutions.)

No. of Hospitals 62 ; Dispensaries 618 ; No. of Beds 15,590 ; No. of Doctors Regd. 10,953 ; in Govt. Service 3,177 ; No. of Nurses 4,034 ; No. of Non-Allopathic Medical Practitioners : 54,384 (Homoeopathic 28,090 ; Vaids 23,668 ; Hakims 2,626) ; No. of Medical Colleges : 9 (Govt. : 4, Private 5). Annual intake of the medical colleges : 950.

There is one Government T.B. sanatorium at Itki, two T.B. Demonstration Centres, one at Patna and the other at Darbhanga, one Government Hospital at Koilwar, three private sanatoria, two at Ranchi and one at Dehri-on-Sone (Rohtas) and 28 T.B. clinics. Total bed strength: 1,143.

There is a leprosarium at Brambay near Ranchi with a provision of 150 beds. Two leper asylums one at Gaya and the other at Deoghar with bed capacity of 150 and 100 respectively, and a subsidy centre at Monghyr with 30 beds are also functioning.

COMMUNICATIONS

Motor vehicles (1971) : Motor cycles and scooters 22,436 ; Auto rickshaws and tempo 155 ; Jeeps and cars 25,568 ; Taxicabs : 3,009 ; Buses 3,910 ; Trucks : 16,237 ; Tractors 2,670 ; Trailors : 2,007 ; Other vehicles : 85 ; Total : 76,147.

Roads (surfaced) : 14,843 kms. (1973).

Electricity : (As on March 31, 1971) Installed capacity 499 MW ; Electricity generated : 1,372 million Kwh ; Per Capita Consumption — Industrial : 32·9 Kwh ; domestic : 44.5 Kwh ; No. of villages electrified : 7,704 ; No. of towns electrified : 202.

Per Capita Income : At current prices Rs. 402·02.

PRESS

Leading dailies	Town	Language	Circulation
Indian Nation ..	Patna	English	48,003
Aryavarta ..	—do.—	Hindi	82,108
Searchlight ..	—do.—	English	20,290
Pradeep ..	—do.—	Hindi	19,477
Sangam ..	—do.—	Urdu	8,912

GENERAL

Minerals : Bihar ranks first in the field of mineral resources and mineral production in India. It shares about 29.62 per cent of total produced amounting to Rs. 1,331 million. Almost the entire production of copper ore (98 pre cent), kyanite (86.0 per cent) and apatite (66.0 per cent) in the country is from Chota Nagpur region of this State. It accounts for 37.2 per cent of the bauxite, 34.5 per cent of fire clay, 46.0 per cent of coal, 32.6 per cent of China clay (crude) and 16.0 per cent of iron in India.

There are 21 coal fields in the State of which the best metallurgical coal lies in Jharia field estimated to be of 3,017 million tonnes. All these coalfields were nationalised by the Government of India in 1972.

The mica belt which has a large supply of high quality block mica extends for about 145 kms. in length with the width of 25 kms. starting from Nawadah in the west running upto Bhagalpur district in the east through Giridih, Hazaribagh and Monghyr districts.

The sole producer of copper is Singhbhum district. This belt extends for about 130 kms. from Duarpuram in the west to Bahragora in the east.

Bauxite and aluminium are located in Ranchi and Palamau districts. Apatite and kyanite are located in Singhbhum.

Chota Nagpur also contains rich deposits of atomic minerals such as chromite, manganese, asbestos, barytes, dolomite, feldspar, quartz, graphite, ochre, uranium, phosphorites, soap stones etc.

There are numerous hot springs throughout the State in which rich mineral water is found.

Banking : No. of branch offices of the banks (urban & rural) 541 ; Population per branch (*a*) Urban (1970) : 20,500 ; (*b*) Rural (1970) : 412,000 ; Per capita deposit : Rs. 41.00 ; Per capita credit : Rs. 14.02.

Important Rivers : The Ganga, the Gandak, the Kosi, Kamla, the Sone, the Barakar, the Damodar, the Koel, the Baghmati and the Subarnarekha.

CHANDIGARH

(Union Territory)

AREA: 114·48 sq. kms. **Population :** 256,979. **Density :** 2,254 per sq. kms. **Sex Ratio :** 749 females per 1,000 males. **Literacy :** 61·24 per cent.

Area of Chandigarh City : 31·67 sq. kms. **Population of Chandigarh City :** 233,004. **Sex Ratio :** 755 females to 1,000 males.

Early in 1948 it was decided to build a new capital for the Punjab at a sight about 388 kms. north of Delhi. This afforded an ideal opportunity to town planners and architects. A team of experts planned the city under the overall guidance and direction of Charles Edouard Jeannert, the French architect popularly known as 'le Corbousier' (meaning 'A man with a crow's eye').

The city was inaugurated as the capital of the Punjab by President Dr. Rajendra Prasad on October 7, 1953.

FORMATION

On November 1, 1966 the Punjab was divided into three units, Punjab, Haryana and Chandigarh. Punjab and Haryana are separate States, while Chandigarh remains a Union Territory. Following is the text of the official announcement of the Central Cabinet on June 9, 1966: "Chandigarh Capital Project, which does not form part of either of the two regions (Punjab and Haryana) shall be constituted into a Union Territory. The Central Government will also acquire powers to give directions to the Governments of the two States to regulate land use in the surrounding areas declared as "controlled areas". Chandigarh will continue to be the capital of both the States of Punjab and Haryana". On November 1, 1966 the Union Territory of Chandigarh came into being in accordance with the Constitution (18th Amendment) Act providing for the linguistic re-organisation of the Punjab.

Subsequent to this the Central Cabinet announced a decision on January 29, 1970 providing for the transfer of the capital project area of Chandigarh to the Punjab within the next five years. Pending the construction of a new capital by Haryana, Chandigarh will remain a Union Territory.

Administration : Union Territory of Chandigarh is administered by a Chief Commissioner who is vested with powers of the State Government in respect of laws in force in the Territory and with financial powers analogous to those exercised by the other administrators of Union Territories. It has one member in the Lok Sabha.

EDUCATION

During 1973-74 there were 39 primary, 23 middle and 30 high/higher secondary schools. The enrolment for the year 1973-74 was as follows: Primary stage 30,500, Middle stage 13,100, Secondary stage 7,100.

DADRA AND NAGAR HAVELI

(Union Territory)

HEADQUARTERS: Silvassa. **Area of the Territory :** 491 sq. kms. **Population of the Territory (1971):** 74,170 (36,964 Males, 37,206 Females.) **Sex Ratio :** 1,007 females per 1,000 males. **Density :** 152 per sq. km. **Literacy :** 14·86 per cent.

Districts : Dadra and Nagar Haveli. **Major Cities :** None. **No. of villages :** 72.

State Boundaries : This Territory is surrounded in the east and north by talukas of Valsad district (Gujarat State) and Thana district (Maharashtra State) in the south and west.

State Languages : Gujarati, Varli, Marathi, Dhodia, Konkani, Hindi.

AGRICULTURE : Agriculture, the main occupation of the Adivasis who represent about 87 per cent of the total population, depends almost entirely on rainfall. During 1973-74, out of 17,000 hectares under cultivation the major crops paddy and ragi were sown in nearly 9,611 and 2,717 hectares respectively. Improved varieties and high yielding varieties of paddy were sown in 2,195 hectares and 3,718 hectares respectively.

Wheat was also sown as a second crop where irrigation facilities were available. Areas under high yielding and improved varieties of wheat were sown in 159 and 49 hectares respectively.

Waste Lands : 2,626 hectares.

Soil Conservation : During 1973-74 terracing of 258 hectares was undertaken while the target for 1974-75 was fixed at 300 hectares.

Forests : The total forest area is 20,335·6 hectares i.e. about 41·5 per cent of total area of the Territory. The main forest products are timber, sandal, shisam, shivan, and khair. Two wet-nurseries are maintained for growing the seedlings required for the plantation.

Animal Husbandry, Poultry and Dairying : One veterinary dispensary and two veterinary aid centres gave free treatment to 4,980 animals during 1973-74.

During 1973-74, 12 cultivators were granted loans amounting to Rs. 20,000 for dairy development. and six cultivators were granted loans amounting to Rs. 26,000 for poultry development.

With a view to improving local breed of cattle, a premium bull centre with four premium bulls of medium type 'Kankreji' are maintained. Milk yield of Government Dairy Farm was 39,744 litres during 1973-74. One poultry breeding centre at Silvassa is established, 31,255 eggs were collected, and 12,655 eggs were sold.

Irrigation : There is no major or medium irrigation scheme. However this Territory has a share in the Damanganga reservoir project, which is a joint venture, along with the Govt. of Goa, Daman & Diu. It is being implemented by Gujarat State and will irrigate about 6,800 hectares of the territory when completed. Preliminary work on this project has begun. Lift irrigation scheme at Tigra, Kherdi and Khadoli-Tinoda, Khanvel-Bindrabin and Dadra have been completed and started functioning.

Power : Power is obtained through an 11 kv transmission line from the Vapi Sub-station of the Gujarat Electricity Board. A proposal for a 66 kv Sub-station at Silvassa has been approved by the Govt. of India. 18 villages out of the 72 were electrified so far (31-8-1974) and 96 pump-sets were energised.

INDUSTRIES : There is no major industry in the Territory. One industrial estate is functioning at Piparia, near Silvassa, where 32 units are working at present. There are 20 other units working outside this estate. The majority of the units are small scale industries. The products manufactured include automobile spare parts, opticals, pesticides, cotton and nylon tapes and ropes, foam products, detergent powder, soap, biscuits, chemicals, tiles, textiles, engineering goods etc.

The director of industries has approved 33 more industrial units in different parts of the Territory.

Labour (1971-72): No. of workers (industries) 543; Agricultural workers (cultivators 25,320; labourers 5,959); Engaged in mining, livestock, forestry, fishing etc., 3,387; Engaged in house-hold industries 308; Unemployed : 39,191.

EDUCATION : There are 144 Government primary schools, 12 grant-in-aid mission schools, 1 recognised unaided mission school, 4 pre-primary schools and 4 high schools. The total enrolment as on 31-3-1974 in the primary schools was 10,054 pupils (6,620 boys and 3,434 girls) and in the high schools 850 pupils (588 boys and 262 girls). There are 8 Government social welfare hostels including 1 Ashram type school at Rakholi for students belonging to Scheduled Castes, Scheduled Tribes and economically backward classes.

There are 2 public libraries at Silvassa and Naroli at present.

PUBLIC HEALTH : There is 1 hospital at Silvassa and 2 dispensaries at Naroli and Dudhani. The hospital at Silvassa has provision for 25 beds. There are 2 primary health centres at Kilavani and Khanvel with 5 sub-centres. A mobile dispensary gives medical facilities at the door of Adivasi villagers.

An x-ray unit had been installed in the hospital which also provides outdoor treatment for T.B. and Leprosy patients.

The Government of India has sanctioned 1 Mobile Dispensary Unit which is expected to be under operation shortly.

COMMUNICATIONS : Position of roads : 107·77 kms. black topped; 36·97 kms. water bound macadam; 15·84 kms. other metalled roads (hard muram surfaced); and 27·96 kms. other unmetalled roads (earth work). The total length of motorable roads is 144·74 kms. No. of vehicles : 35 (Government vehicles).

DELHI

(Union Territory)

AREA : 1,485 sq. kms.; **Population** (1971 Census): 4,065,698; **Density:** 2,738 per sq. km.; **Sex Ratio :** 801 females per 1,000 males; **Literacy:** 56·61 per cent.

Administration : Delhi is a Union Territory. It has an elected Metropolitan Council consisting of 61 members including 5 nominated by the President of India.

The Lt. Governor is the Administrator who is assisted by 4 Executive Councillors (one Chief Executive Councillor and three Executive Councillors) appointed by the President of India on the recommendation of the Union Home Ministry.

The presiding officer of the Metropolitan Council is called Chairman.

The entire Territory is covered by three Local Bodies *viz.* Delhi Municipal Corporation, New Delhi Municipal Committee and Delhi Cantonment Board.

Boundaries : Delhi is surrounded by Uttar Pradesh in the east, and by Haryana in the south, west and the north.

AGRICULTURE : The Delhi Landholders (Ceiling) Bill passed in August 1960, fixes the ceiling on land holdings at 12·15 hectares for a family of five. Leases in future have been prohibited except by small owners holding less than 3·24 hectares and persons suffering from a disability. Future tenants will have a minimum term of five years.

(See chapter on Agriculture for production details.)

INDUSTRIES: There are about 34,000 industrial units functioning in Delhi. These units produce goods worth Rs. 3,850 million, provide employment to 266,000 persons and have an investment of Rs. 2,400 million.

The main industries of Delhi are Electronics, Electrical Appliances and Accessories, Lathe Machines and Drilling Machines, Small Tools, Cycle and Cycle Parts, Paints and Varnishes, Rubber Goods, Plastic Goods, Auto Parts and Batteries, Precision Instruments, Cotton Mills, Hand and Powerloom Weaving, Imitation Jewellery, Copper and Brass Utensils, Sports Goods, Pottery and Hosiery.

Labour : No. of workers unions in Delhi (1972) — 825; No. of workers unions submitting returns — 364; Membership of workers unions submitting returns — 359,000.

Figures in 1971 indicated that there were 42 industrial disputes which involved 27,846 workers resulting in the loss of 134,806 man-days. In 1971, average daily employment in all working factories which numbered 1,764, was 88,000. *N.B.* All figures are provisional.

The number of registrations on the live register of the Regional Employment Exchange, at the end of 1973, was 194,981.

EDUCATION : The number of Higher Secondary Institutions during the year 1972–73 was 537.

The number of institutions Primary, Middle and Higher Secondary was 2,403 during 1972-73 and the total enrolment was 935,250 in that year.

Number of arts and science colleges in Delhi stood at 62 during the year 1973–74. There were 16 colleges of engineering and technology during 1972–73.

Universities : *University of Delhi, Old Viceregal Lodge, Delhi*-110 007. — is a teaching and affiliating university. The medium of instruction is English and the number of students in 1973–74 was : 124,000.

Jawaharlal Nehru University, Vigyan Bhavan Annexe, Maulana Azad Rd., New Delhi 110 011. — has jurisdiction over the whole of India. It is a teaching and a research university.

(For further details about the universities, see chapter on Education.)

PUBLIC HEALTH (1973)

There are 58 hospitals, 254 dispensaries and 8 primary health centres. The total bed strength is 10,639. Birth rate, death rate and infant mortality during 1973 were 23·6, 7·4 and 66·01 respectively (per thousand).

COMMUNICATIONS : During the year 1973, the following vehicles were plying on the roads of Delhi :

Motor Cycles: 150,670; Auto Rikshaws: 13,467; Private Motor Cars: 75,860; Taxis: 4,857; Commercial Vehicles (goods): 19,708; Other Public Service Vehicles: 4,110.

The Delhi Transport Corporation had 1,661 buses operating on 60 routes on June 30, 1973.

PRESS : The major dailies in Delhi with their circulation in brackets are as follows :

English : Hindustan Times (142,904); Hindustan Times Evening News (N.A.); Indian Express (94,900); National Herald (39,429, Lucknow & New Delhi); Patriot (N.A.); Statesman (191,039 Calcutta & New Delhi); Times of India (82,012).

Hindi : Hindustan (156,164); Nav Bharat Times (176,328); Vir Arjun (27,227).

Urdu : Milap (37,497); Pratap (32,437).

Urban Development *Delhi Development Authority, Delhi Vikas Bhawan, Indraprastha Estate New Delhi 110 001 :* is responsible for planning and implementing the 20-year Delhi Master Plan. Under the large scale acquisition, development and disposal of land scheme, over 8,000 hectares have been developed by the DDA for setting up new residential industrial, commercial and institutional enclaves. Over 30,000 houses flats have been constructed and 18,000 more are sanctioned for construction in 1974-75. Under the Jhuggi/Jhonpri Removal Schemes, about 60,000 plots have been provided. Under the Decongestion Programme, several roads have been widened and unauthorised occupation of public land cleared. The cleared areas have been given a face-lift by developing about 60 parks and woodlands in different areas. Three phases of the ambitious River-Front Scheme to improve the western bank of the river Jamuna are completed.

GOA, DAMAN AND DIU

(Union Territory)

CAPITAL: Panaji; **Urban Agglomeration Area:** 37·00 sq. kms.; **Population :** 59,258.

Area of Territory : 3,813 sq. kms.

Population of Territory : 857,771.

Districts: Goa, Daman and Diu with Panaji as headquarters. Goa: Area 3,701 sq. kms.; Population 795,120; Daman: Area 72 sq. kms.; Population 38,738; Diu: Area 40 sq. kms.; Population 23,912.

Important Towns: with their population : Panaji urban agglomeration 59,258; Margao urban agglomeration 48,593; Marmugao, 44,065; Mapuca 20,001.

Other Towns: Ponda, Pernem, Chauri, Quepem, Bicholim, Sanguem, Valpoi, Daman and Diu.

No. of Villages: 429 revenue villages or 409 census villages (excluding 8 uninhabited villages as per 1971 census).

State Boundaries: The entire territory of Goa, Daman and Diu comprises of three districts of different land blocks.

Goa is bound in the north by the Terekhol river which separates it from Maharashtra, in the east and south by Karnataka and in the west by the Arabian Sea.

Daman is bound in the north by the Bhagwan river, in the east by Gujarat State, in the south by the Kalem river and in the west by the Arabian Sea.

Diu, a tiny island in the Gulf of Cambay near Veraval Port, is separated from the southern extremity of the Saurashtra peninsula by a narrow channel running through a swamp.

Language : The predominant language of Goa district is Konkani and Daman & Diu is Gujarati.

AGRICULTURE

Net area sown in Goa, Daman & Diu is 128,429; 4,353 and 793 hectares respectively. The food crops that are commonly grown include paddy, nachini (ragi) and pulses. Vegetables of all types are grown as rainfed crops in Kharif and as irrigated crops in Rabi season. The main commercial fruit crops grown in Goa are coconut, cashewnut, betelnut (arecanut) and mango. The other common fruits available in this territory are pineapple, jackfruit breadfruit, various types of citrus, papaya, and bananas.

Main schemes implemented during 1973-74 are improved seed programme, manures and fertilizers, horticultural development, farmers training, agricultural machinary, plant protection, etc.

During the year 1973-74 area covered under high yielding variety of paddy was 20,920 hec. and achievement in paddy production was 132,248 tonnes. Two new crops were introduced i.e. wheat and groundnut on 100 demonstration plots and 25 demonstration plots respectively.

Under Horticulture Development 125,360 coconut seedlings, 347,107 cashew seedlings, 7,500 pineapple suckers, 6,636 mango grafts, 15,300 banana suckers and 5,254 of miscellaneous stock plants were supplied.

Under Plant Protection an area of 13,450 hec. was covered during 1973-74.

Under Farmers Training Programme 22 short courses for 398 farmers, and 7 courses of covenors with 68 participants were held.

Poultry Production

(Eggs-by Government Poultry Farm only)

1972-73	316,127
1973-74	916,874

Dairy Production (Only Government Scheme)

	Milk production	Butter	Ghee
1972-73	1,337,128 litres	10,367 kgs.	5,392 kgs.
1973-74	1,051,029 liters	2,748 kgs.	273 kgs.

Fisheries : During 1973 the estimated catch of marine fish amounted to 20,000 tonnes worth Rs. 29·5 million.

Goa has a coastline of about 100 kms.; inland waterways about 250 kms. long; and a number of small fresh water ponds covering an area of about 100 hectares. The coast is full of creeks and estuaries which provide a good shelter for fishing crafts.

Electricity: In 1965-66 bulk power for distribution in the Territory was obtained from Karnataka and Maharashtra to Goa and from Gujarat to Daman and Diu. The aggregate maximum power demand in the Territory has increased from 2·4 m.w. in 1965-66 to 34 m.w. during 1973-74 and the units sold correspondingly increased from 5·2 million k.w.h. in 1965-66 to 119·16 million k.w.h. in 1973-74.

All the 13 towns and 235 villages of the Territory have been electrified as on 31st March 1974.

MAJOR INDUSTRIES

Name	Place	Capacity	Cost (Rs.)	When started
1. Chowgule & Co. Pvt. Ltd., (Pelletisation Plant)	Pale, Usgao	500,000 tonnes	27.50 million	1967
2. Chowgule & Co., Pvt. Ltd. (Textile Mills)	Xeldem, Quepem	25,036 spindles	21.942 million	1969
3. Arlem Breweries Ltd.	Arlem	50,000 Hl. beer	12.064 million	1970
4. Mcdowell & Co. Pvt. Ltd.	Bethora, Ponda	144,000 cases	5.51 million	1970
5. Ciba of India Ltd., (Pesticides & Rutin)	Corlim	Rutin-50 tonnes/annum 1,296 tonnes of pesticides and 1,986 tonnes of formulations	42.1 million	1972
6. Chowgule & Co. Pvt. Ltd.	Sirigao	Maintenance/repairs of barges/small vessels including engines — 72 vessels, new construction of barges & ships upto 1000DW — vessels, structurals — 900 tonnes, deep sea fishing trawlers — 12 nos.	0.794 million	1953
7. Timblo Industries Pvt. Ltd.	Margao	7 lakhs pairs of Sandals p.a.	0.77 million	1971
8. Zuari Agro Chemicals Ltd.	Sancoale	Urea-340,000 tonnes Compound fertilizer 150,000 tonnes	560.00 million	1973
9. Madras Rubber Factory Ltd.	Khaddepar	0.8 million tyres 0.8 million tubes	40.00 million	1973
10. Sanjivani Sahakari Sakhar Karkhana Ltd.	Usgao	White & raw sugar 20,000 tonnes	30.00 million	1974
11. Goa Flour Mills	Chicalim	2,250 tonnes	3.47 million	1967
12. Goa Steel Rolling Mill & Allied Industries	Bicholim	3,000 tonnes	0.955 million	1967
13. Curti Chemicals Pvt. Ltd.	Curti, Ponda	Potassium permanganate-750 tonnes, potassium carbonate-75 tonnes	4.00 million	1970
14. Salgaocar Industrial Gases Pvt. Ltd.	Cortalim	A.G. 90.00 cu.m. Q.G. 1.50 cu.m.	0.98 million	1966
15. Associated Breweries & Distilleries	Cortalim	20,000 Hl. pmj. beer	2.37 million	1967
16. Chowgule Engineering Workshop	Borim	—	1.724 million	1967
17. Tyres India	Bicholim	25,000	1.854 million	1969
18. Sainet Pvt. Ltd.	Corlim	3000 kgs. fishnet	1.72 million	1974
19. Keserval Breweries Ltd.	Bethora, Ponda	Beer and Stout-15,000 Hl.	6.142 million	1972
20. Salgaocar & Brothers Pvt. Ltd.	Cortalim	New construction of barges-4 nos. of 750 tonnes capacity barges p.a. Repairs of barges, comprehensive hull & machinery repairs of 30 barges p.a., jumboisation/conversion of barges-2 barges p.a.	2.92 million	1957

Industrial Development : Since liberation up to 31st March, 1974 over 1,243 small scale units were registered with Department of Industries. In the large and medium sector 20 projects were functioning as on March 31,1974. The largest single project in the territory is a fertiliser project involving an investment over Rs. 500 million.

Industrial Estates : (Names of Govt. Estates):— 1. Corlim Industrial Estate, Corlim-Goa ; 2. Margao Industrial Estate, St. Jose De Areal, Margao-Goa ; 3. Sancoale Industrial Estate, Sancoale, Mormugao ; 4. Daman Industrial Estate. The last one is under consideration.

Cottage & Small Scale Industries : The small scale industrial units can be mainly classified as (1974): canning industries (14); workshop and barge repairs (163); cashew processing (10); printing presses and stationery (60); clay and ceramics products (21); rubber and rubber products (23); rice and flour mill (279) and forest products (92).

Besides the above, a number of industries in sophisticated lines of production such as manufacture of carbon paper, typewriter ribbons, pesticides, automobile batteries, matrix board, fine chemicals, electronic parts, conduit pipes, polythene bags, pharmaceuticals and cosmetics, sodium silicate, acrylic sheets, spectacle frames, nylon fishing nets, zip fasteners, manganese dioxide, corrugated board containers, bifocal lenses, metal cutting tools etc. have come up.

Industrial Development Agencies :

1. Small Industries Service Institute, Miranda Bldg. Margao 403601.
2. Maharashtra Small Scale Industries Development Corpn. Margao 403601.
3. Maharashtra State Financial Corpn. Panaji 403001 (with branches at Margao and Daman).
4. Goa, Daman and Diu Industrial Development Corpn. Panaji 403001.

Labour (1972): No. of Unions: 46; No. of Workers: 20,238; No. of Strikes: 1972 — 10; Man-days lost: 24,373 (approximately).

EDUCATION (1973-74)

No. of Schools		No. of pupils	Boys	Girls
Primary	1,069	121,519	66,691	54,828
Middle	365	47,087	27,814	19,273
Secondary	203	33,962	20,126	13,836

No. of Colleges		No. of Students	Boys	Girls
Arts & Science	5	4,924	2,960	1,964
Professional	9	2,714	2,295	419

University	No. of Students	Men	Women
Post Graduates Centre, Panaji	247	140	107

One Polytechnic and three Elementary Teachers' Training Colleges/Schools are functioning in the Territory. One Food Craft Centre has also started functioning at Alto de Porvorim, Bardez Taluka.

Education is made free in this Territory upto Standard VIII in all Government and aided schools.

PUBLIC HEALTH (1973-74)

No. of Hospitals: Private including Nursing Homes 39; Government 27.

No. of beds: 2,185 (Govt.), 669 (Private); No. of doctors: 619; No. of nurses: 559; No. of Non-Allopathic Medical Practitioners: 59; No. of Medical College: 1; Amount spent on medicine: Rs. 1,756,964 (1972-73).

COMMUNICATIONS (As on June 30, 1974).

The total number of vehicles registered in the Territory is 25,274.

Total no. of transport buses registered: 918.

Length of Motorable Roads: Goa 2,530·150 kms., Daman 80·640 kms., Diu 21·182 kms.

A bridge across the Diu creek at Tad, about three miles from Diu, which links Diu with the mainland of India has been constructed. Construction of the major bridge over Mandovi linking Panaji to Betim is complete and lies on the West Coast Highway.

The West Coast Highway, passing through this territory is about 140 kms.

There is a direct train service between Vasco-da-Gama and Pune.

Mormugao is one of the major harbours on the west coast of India. It permits ocean-going vessels of various sizes but cargo ships mainly from Japan, America and Europe call at the port. Coastal steamer services operate between Bombay and Panaji.

Goa is criss-crossed by as many as half a dozen rivers and rivulets, and internal waterways are being developed fully for transport of men and goods.

Ferries : Panaji-Betim (over Mandovi); Agacaim-Cortalim (over Zuari); Old Goa-Piedade (over Mandovi); Pomburpa-Charao (over Mandovi); Aldona-Corjuem (over Mandovi); Colvale-Macazana (over Chapora); Siolim-Chopdem (over Chapora); and Dona Paula-Mormugao (over Zuari).

Post and Telegraph Facilities: At present there are 157 post offices in Goa out of which, 60 are provided with telegraph facilities. There are 18 telephone exchanges with total equipped capacity of 4,735 lines. There are 48 public call offices.

PRESS

Leading Dailies :

Name	Town	Language
Navhind Times	Panaji	English
Navprabha	Panaji	Marathi
Gomantak	Panaji	Marathi
Rashtramat	Margao	Marathi
O Heraldo	Panaji	Portuguese/ English
Uzvadd	Panaji	Roman Konkani/ English

GENERAL

Administration : The Administrator of the Territory is a Lt. Governor, appointed by the President. As the Territory comprises of three land blocks separated by 480 kilometres, separate collectors have been appointed at Goa and Daman and a Civil Administrator at Diu.

Village Panchayats : There are 190 village panchayats.

Housing: The Goa, Daman and Diu Housing Board was constituted on March 20, 1969. During the Fifth Plan Rs. 15.5 million has been earmarked for housing schemes entrusted to the housing board as follows: Subsidised Industrial Housing Rs. 500,000; Low Income Group; Rs. 350,000; Middle Income Group Rs. 4.00 million; Slum Clearance Scheme: Rs. 2.5 million; Land Acquisition and Development Rs. 5.00 million.

Rivers: The Mandovi, the Zuari, the Terekhol, the Kolval, the Sal, the Baga, the Shinkeri, the Talpan, the Galjibag, the Mhadai, the Kushvati, the Kholak and the Kalai.

Historic and Religious Places: In Old Goa, about eleven kms. from Panaji, there are several convents. Besides the convents there is the Basilica of Bom Jesus, popularly known as the Church of St. Francis Xavier. The body of Goa's patron saint, St. Francis Xavier is kept there. The exposition of the body of St. Francis Xavier at Bom Jesus Basilica was held to in December 1974. Not far from this Church are the Cathedral Se Convent built between 1562 and 1619, and the Convent of St. Francis Assisi the Church of which was consecrated in 1603. At Pilar, about 13 kms. from Panaji, is located the noted Pilar Seminary.

Goa is well-known for its famous Hindu temples. The temple Saptakoteshwar, the family deity of the ancient Kadamba rulers of Gomantak is situated at Narve (Bicholim). Noted among the temples from Ponda taluka are Mangesh at Priyol, Shanta Durga at Kavale, Mahalakshmi and Nagesh at Bandora, Mahalsa at Mardol, Gopal Ganapati at Farmagudi Kamakshi at Shiroda, Mallikarjuna at Cancona, Kalika at Kansarpal Bhagavati at Pernem and Kamaleshwar at Korgaon.

Historic Dates: Occupation of Goa by Afonso de Albuquerque 1510; Occupation of Diu by Portuguese 1535; Establishment of Inquisition in Goa 1560; Occupation of Daman by Portuguese 1559; Naval Treaty between Shivaji, founder of the Maratha Empire, and the Portuguese December 11, 1667; Maratha war with Portuguese for conquest of Bassein 1737-1739; Proclamation of the Portuguese Republic December 5, 1910; Beginning of Salazarian dictatorship May 28, 1926; First Satyagraha campaign for Goan liberation June 18, 1946; Liberation of Nagar Haveli August, 1954; passage of the Hague Court regarding Portuguese right of Liberation from Daman to Nagar Haveli April 12, 1960; Liberation of Goa and appointment of Military Governor December 19, 1961; Installation of Civil administration June 8, 1962; First democratic elections and adult franchise December 9, 1963; Installation of the first popular Ministry December 20, 1963; Commissioning of I.N.S. "Gomantak", the first Indian Naval Shore establishment in Goa March 7, 1964; Opinion Poll January 16, 1967; New Ministry March 23, 1972.

GUJARAT STATE

CAPITAL: Gandhinagar; **Area:** 649 sq. kms.; **Population:** 24,055.

Area of the State: 195,984 sq. kms.; **Population:** 26·669 million; **Rural:** 19·20 million; **Urban:** 7·49 million; **Density:** 136 per sq. km. **Sex Ratio:** 934 females per 1,000 males. **Literacy:** 35·79 per cent.

Districts	Headquarters	Area sq. kms.	Population
Ahmedabad	Ahmedabad	8,707	2,910,307
Vadodara	Vadodara	7,788	1,980,065
Banaskantha	Palanpur	12,702	1,265,383
Bharuch	Bharuch	9,045	1,109,601
Mehsana	Mehsana	9,027	2,092,468
Panch Mahals	Godhra	8,866	1,848,804
Surat	Surat	7,745	1,786,924
Dangs	Ahwa	1,683	94,185
Sabarkantha	Himatnagar	7,390	1,187,637
Jamnagar	Jamnagar	14,125	1,111,343
Bhavnagar	Bhavnagar	11,155	1,405,285
Amreli	Amreli	6,760	848,730
Junagadh	Junagadh	10,607	1,656,676
Kutch	Bhuj	45,612	849,769
Rajkot	Rajkot	10,203	1,624,072
Surendranagar	Surendranagar	10,488	845,454
Gandhinagar	Gandhinagar	649	260,642
Kheda	Kheda	7,194	2,451,387
Valsad	Valsad	5,238	1,428,742

Major Cities: With population over 100,000 and area in sq. kms. Ahmedabad 1,591,832, 92·98; Surat 471,656, 8·26; Vadodara 467,487, 25·17; Rajkot 300,612, 36·26; Bhavnagar 225,974, 23·33; Jamnagar 214,816, 14·42; Nadiad 108,269, 28·28.

No. of Villages: 18,275; **Uninhabited:** 422; **No. of Talukas:** 184; **No. of Towns:** 209; **No. of Municipal Corpn.:** 4; **District Panchayats:** 18; **Taluka Panchayats:** 185; **Nagar Panchayats:** 59; **Gram Panchayats:** 12,119.

State Boundaries: The State is bound by Jalor, Sirohi, Udaipur, Dungarpur and Banswara districts of Rajasthan in the north and north-east, Jhabua district of Madhya Pradesh, Dhulia and Nasik districts of Maharashtra in the south, Arabian Sea and Pakistan in the north-west.

State Language: Gujarati is the language of administration, law courts and university, and Hindi for communication with the Union Government.

AGRICULTURE

In 1970-71, Gujarat had a record farm production of 4·4 million tonnes. However, in 1973-74, foodgrain production was 3·5 million tonnes. The total cropped area was about 10·42 million hectares. (Details in the chapter on 'Agriculture'.)

Forests: 1,626,400 hectares. The forest area in the State is barely 9 per cent of which a large portion is barren and divided. The State Govt. has prepared an ambitious programme for the extension of forestry during the Fifth Plan. An amount of Rs. 90 million has been proposed in the Plan against Rs. 35·5 million in the Fourth Plan.

Fisheries: Gujarat State has a span of 120,000 sq. kms of ocean area spread over inshore and offshore regions. Fish production was expected to increase to 280,000 tonnes by the end of the Fourth Plan. Total No. of fishermen in Gujarat is about 250,000 out of which 39,000 are active. (Please see chapter on 'Fisheries' also.)

Major Ir[illegible]tion and Power Projects. Please see main chapter on 'Irrigation and Power Projects'.

INDUSTRIES (1973-74).

The major industries of the State are: Textile including ginning and pressing of cotton, general and electrical engineering, vegetable oils, chemicals (including salt), soda ash and cement.

Particulars regarding number of working factories and average number of workers employed therein daily respectively under each category are as follows :—

Textile ; 873 ; 191,349 ; Food except beverages : 733 ; 34,266 ; Tobacco : 234 ; 7,405 ; Non-metallic mineral products ; 575 ; 30,342 ; Machinery except electrical : 693 ; 30,939 ; Chemical and Chemical products : 231 ; 26,535 ; Transport equipment : 215 ; 16,417 ; Basic metal industries ; 257 ; 9,059 ; Metal products : 342 ; 9,540 ; Others : 1,664 : 89,533.

Production data of some of the industries are as follows (1972) : Hydrogenated Oil : 60,492 tonnes ; Cement : 1,709,000 tonnes ; Soda Ash : 465,000 tonnes ; Caustic Soda : 39,162 tonnes ; Cotton Yarn : 187,313 tonnes ; Soda : 39,162 tonnes ; Sugar : 97,866 tonnes ; Sulphuric Acid : 190,598 tonnes ; Cotton Yarn : 187,313 tonnes ; Cotton Cloth : 1,341,417 thousand metres ; Super-phosphate ; 68,837 tonnes ; Paper and Paper Board : 29,067 tonnes ; Power Driven Pumps (nos.) : 59,000 ; Diesel Engines (nos.) : 8,369 ; Clocks (nos.) : 64,000 ; Electric Motors (H.P.) : 29,000 ; Ceramics : 16,392 tonnes ; Refractories : 15,487 tonnes ; Salt : 3,625,700 tonnes.

Major Public Sector Undertakings : Indian Petro-Chemical Corporation ; Oil & Natural Gas Commission; Hindustan Salts and Indian Oil Corporation ; Modern Bakeries, Ahmedabad.

New Industrial Projects : The new projects envisaged include heavy water project by Atomic Energy Commission at Vadodara and telephones, machine tools, ordinance items, tractors and D.D.T.

Small-scale Industries : There are more than 22,000 small-scale industrial units in the State at present (besides several thousand unregistered ones) as against 2,169 in 1961.

Industrial Estates : Gujarat Industrial Development Corporation has 78 industrial estates (including 13 set up by the industries) in the State. These are spread over 17 of the 19 districts. Fifty-two estates are in urban areas, 16 in semi-urban areas, and 10 in rural areas.

INDUSTRIAL DEVELOPMENT AGENCIES

Gujarat Industrial Development Corporation, Fadia Chambers, Ashram Rd., Ahmedabad 380009.

Gujarat State Finance Corporation, Jal Darshan, Ashram Rd., Ahmedabad 380009.

Gujarat State Industrial Investment Corporation, Natraj Chambers, Ashram Rd., Ahmedabad 380009.

Gujarat Small Industries Corporation, Ambica Nivas, Ashram Rd., Ahmedabad 380009.

Gujarat Agro-Industries Corporation, "Khet Udyog", Stadium Rd., Ahmedabad 380014.

Gujarat Mineral Development Corporation, Natraj Chambers, Ashram Rd., Ahmedabad 380009.

Gujarat Export Corporation, Industry House, Ashram Rd., Ahmedabad 380009.

Small Industries' Service Institute, Government of India, Harisidh Chambers, Ashram Rd., Ahmedabad 380009.

Liaison Officer (Industry), Dhanraj Mahal, Apollo Bunder, Bombay 400001.

Liaison Officer, Gujarat Information Centre, 6, State Emporium Bldg., New Delhi 110001.

See chapter on 'State Corporations' for details.

Labour@ : Workers by Industries : Total No. of workers ; 8,395,546 (Males : 7,072,557 ; Females : 1,322,987) ; Cultivators (Males : 3,173,204 ; Females : 446,793) ; Agricultural labour (Males : 1,248,027 ; Females : 639,633).

Livestock, Forestry, Fishing, Hunting, & Plantation orchards and other activities : (Males : 155,130 ; Females : 11,388) ; Mining and quarrying (Males : 29,518, ; 5,254) ; Manufacturing, processing, servicing and repairs (*a*) Household industry (Males : 209,123 ; Females : 27,449) ; (*b*) Other than house-hold industry (Males : 737,008 ; Females : 39,266) ; Construction (Males : 103,593 ; Females: 16,316) ; Trade and Commerce : (Males : 561,928 ; Females : 20,689) ; Transport and Communications (Males : 233,875 ; Females : 5,824) ; Other Services (Males 621,151 ; Females : 110,377) ; Non-workers : (Males : 6,729,937 ; Females : 11,571,992).

Factories† (June 30, 1973) : No. of factories : 6,368 ; Average daily no. of workers employed : 475,080.

Employment Exchanges : During 1973-74 about 21,520 persons were placed in employment as against the total registration of 248,503.

No. of industrial disputes (1972) : 118 ; No. of workers involved : 157,516 ; No. of man-days lost : 255,760.

EDUCATION (1972-73)

Schools	Number	Pupils	Teachers
Primary	21,831	3,721,000	100,000
Secondary	2,468	855,000	31,000
Higher Secondary ..	310	172,000	9,000
Others	2,200	120,000	3,185

Engineering Institutes (1972-73)

	Intake Capacity	Sanctioned Seats	Actual Admissions
Degree 7 ..	1,963	1,963	1,983
Diploma 19 ..	3,320	3,320	3,141

Universities: *Gujarat University*, Ahmedabad 380009. *Gujarat Vidyapith* (National University of Gujarat), *Ahmedabad* 380014. *Maharaja Sayajirao University of Baroda*, Vadodara 390002. *Sardar Patel University*, Vallabh Vidyanagar. *Saurashtra University*, Rajkot 360001. *South Gujarat University*, Government Medical Campus, Mathura Gate, Surat 395001.

PUBLIC HEALTH (1972) :

Hospitals and Dispensaries : 1,535 ; Beds : 19,639 ; Doctors : 2,029 ; Nurses : 3,589 ; Primary Health Centres: 251 ; Sub-centres : 753.

Under family planning programme 10,000 vasectomy, 50,000 tubectomy and 17,000 IUCD insertions were done during 1973–74.

COMMUNICATIONS

Length of Roads : (March 31, 1973) 37,513 kms. A provision of Rs. 580 million is made in the Fifth Plan to build 3,873 kms. of road. National Highways : 1,351 kms. ; State Highways : 8,483 kms. ; Major Dist. roads : 7,798 kms. ; Other Dist. roads : 9,153 kms. ; and village roads : 10,727 kms.

Posts & Telegraphs : No. of Post Offices : 7,210 ; Telegraph Offices : 697.

Railways : (1972–73) : 5,656 kms ; Broad Gauge : 1,134 kms. ; Metre-Gauge 3,381 kms. ; Narrow Gauge : 1,141 kms.

@ *Source :* Census 1971. † *Source.:* Chief Inspectorate of Factories.

Motor Vehicles : (30-6-1974) : Motor cycles : 91,932 ; Jeeps : 11,006 ; Private cars (three-wheeler) : 1,830 ; Motor cars : 26,845 ; Taxi cabs : 2,480 ; Auto-Rikshaws ; 13,080 ; Buses : (*a*) Passenger Buses : 7,599 ; (*b*) School Buses : 171 ; Private Service Vehicles : 373 ; Police Vans : 426 ; Goods Vehicles : (*a*) Trucks : 25,722 ; (*b*) Tankers : 1,853 ; (*c*) Tempos : 1,014 ; (*d*) Other light vehicles : 2,039 ; Trailors : 1,525 ; Tractors : 21,419 ; Ambulances : 381 ; Others : 452.

Press : Leading dailies with their circulation figures.

English : Times of India, Ahmedabad, 26,531 ; Indian Express, Ahmedabad, 16,187 ; Western Times, Ahmedabad 16,000.

Gujarati : Gujaratmitra and Gujaratdarpan, Surat 48,558 ; Janasatta, Ahmedabad 43,974 ; Loksatta, Vadodara, 30,376 ; Phulchhab, Rajkot. 44,401 ; Sandesh, Ahmedabad, 102,046 ; Gujarat Samachar, Ahmedabad, 95,638 ; Jai Hind, Rajkot, 40,727 ; Pratap, Surat, 12,053.

GENERAL

Rivers : The Banas, the Mahi, the Sabarmati, the Shetrunji, the Tapti, the Luni, the Narmada and the Saraswati.

Minerals : Gujarat is rich in minerals like salt, limestone, manganese, gypsum, china clay, calcite, bauxite, etc. Large deposits of bauxite of very good grade are located in Saurashtra and Kutch. The reserves of bauxites are about 17 million tonnes. The fluorite deposit located near Chhota-Udepur in Vadodara district is one of the largest in Asia and has reserves of 11·6 million tonnes. Limestone reserves run into several thousand million tonnes with the best quality located in Saurashtra and Kutch. The State also has deposits of lignite, china clay and other clays, glass sand and quartz, dolomite, agate, calcite etc.

MINERAL PRODUCTION (1972)

	Quantity (tonnes)	Value (Rupees)
Agate	699,000	108,000
Bauxite	276,118,000	6,619,000
Chalk	59,910,000	1,143,000
Quartz & Silica	2,509,000	194,000
Limestone..	2,618,471,000	14,739,000
Fluorite	24,000	24,000

HARYANA STATE

CAPITAL : Chandigarh.

Area of State : 44,222 sq. kms. **Population of State :** 10,036,808. **Density :** 226 per sq. km. **Sex Ratio :** 867 females per 1,000 males. **Literacy :** 26·89 per cent.

District	Area sq. kms.	Population
Hissar	10,625	1,663,963
Rohtak	3,874	1,102,507
Gurgaon	4,886	1,371,714
Karnal	3,721	987,923
Ambala	3,833	1,098,405
Jind	3,300	770,091
Mahendragarh@	3,029	738,562
Sonepat	2,169	683,027
Bhiwani	5,047	757,717
Kurukshetra	3,738	862,899
	44,222	10,036,808

(District headquarters have the same name)
@ The name of the headquarter is Narnaul.

Cities : With over 100,000 population. Rohtak (Area : 11.66 sq. kms.) 124,755; Ambala Cantt. (Area : 36·26 sq. kms.) 102,493.

No. of Towns : 65. **No. of Villages :** 7,064 (Inhabited : 6,731).

State Boundaries : The State is bound by Punjab on West and portion of Himachal Pradesh in the north, Uttar Pradesh and Delhi in the east, Rajasthan in the south and west.

State Language : Hindi.

AGRICULTURE

The production of foodgrains during 1972-73 was 4·07 million tonnes.

Area under forests (1972-73) : 1,523 sq. kms. ; net area sown : 3·56 million hectares. Area sown more than once : 1·63 million hectares. (See main Chapter on "Agriculture" also.)

Irrigation : The total irrigated area is 2·48 million hectares. Main irrigation schemes are Jui Lift Irrigation Scheme, Indira Gandhi Lift Irrigation Scheme, Loharu Lift Irrigation Scheme, Siwani Lift Irrigation Scheme and Gurgaon canal projects. (For other projects see Chapter on "Irrigation Projects.")

Electricity	1967–68	1972–73
No. of villages electrified	1,262	6,731
Per capita consumption of electricity (units)	57	119 kw H.
No. of tubewell connections for power pumps	29,000	114,618
No. of consumers served	349,575	668,649

INDUSTRIES

There are six cotton textile mills in Haryana located at Bhiwani, Hissar, Faridabad and Rohtak. Three sugar factories at Karnal, Panipat and Kaithal are being added to the existing ones at Rohtak, Panipat and Yamunanagar. There are two paper mills at Faridabad and Yamuna Nagar and two cement factories at Surajpur and Dadri.

There is a shoe factory, five large-scale cycle assembling and cycle component units and eight rerolling mills, besides more than 4,800 units engaged in the manufacture of agricultural implements, machine tools, electric goods, bolts and nuts and other goods. There are four tractor manufacturing units, one motor cycle manufacturing unit, and one automobile tyres and tube factory. Haryana State Industrial Development Corporation has received letters of intent for a steel billet and a cigarette plant and has already set up a brewery and a tannery. A factory to manufacture small cars is under progress. In all there are 2,013 small industrial units and 306 joint stock companies.

Production of important industries (1972-73) :

Cotton textiles worth Rs. 2·738 million ; Cement 375,935 tonnes ; Paper 52,925 tonnes ; Sugar : 93,988 tonnes ; Cycles 632,000 ; Sewing machines 26,902 ; Agricultural implements and Machine tools worth Rs. 240·1 million ; Steel rerolling 49,755 tonnes ; Scientific instruments worth Rs. 42·39 million ; Wood and Machinery Screws worth Rs. 3·21 million ; Glass worth Rs. 28·80 million ; Woollen textiles worth Rs. 58·28 million.

Labour : No. of registered Trade Unions (as on Dec. 31, 1972) : 312. They cover nearly 65,909 workers.

No. of workers in various industries as per 1971 census : 2,643,116 ; as per cent of total population : 26·51 ; Cultivators : 1,302,640 ; Agricultural labourers : 429,007 ; Other workers : 911,469 ; Non-workers : 7,328,049.

No. of registered factories : 1,738 ; No. of registered working factories (1972) : 1,588 ; No. of workers engaged in the registered factories : 105,377.

EDUCATION

Schools	1972–73
Total No. of schools	7,008
High/Higher Secondary Schools	1,098
Middle Schools..	779
Primary Schools	5,131
Teachers Training Colleges	12
Total No. of Teachers	43,753
Trained	42,902
Untrained	851
No. of Scholars in Recognised Schools :	1,521,115

Colleges	1972–73
Total No. of Colleges	109
Managed by Government	26
Aided Colleges	83
Arts and Science	87
Medicine	3
Education	12
Agriculture	2
Engineering	1
Physical Training	1
Veterinary Science	1
Technology	1
Dairy Science	1

Universities :

1. Haryana Agricultural University, Hissar, for research and extension education. The University follows the trimester system, as in the Land Grant Universities in the United States. The University has four constituent Colleges all of which are residential institutions. A college of Home Science and an institute of Food Science and Technology are being added.

2. Kurukshetra University, Kurukshetra, for the encouragement of research especially in Sanskrit, Prakrit, Indian Philosophy etc. It has developed into a multi-faculty institution with 32 departments.

PUBLIC HEALTH

Hospitals and Dispensaries as on 31-12-1973	329
Total No. of Beds	7,063

Family Planning :

No. of Family Planning Clinics	101
Sterilisation operations performed during the year 1972–73	23,606
IUCD insertions done..	14,303

COMMUNICATIONS

Roads : (upto Feb. 1974) : Metalled 13,897 kms. maintaining link with 4,198 villages.

During the year 1972-73, Haryana Roadways has recorded a net profit of Rs. 22·38 million as against Rs. 16·68 million during the year 1970-71. Fleet Strength (as on Jan. 1974) 1,557 ; Staff Strength 8,041 ; No. of Routes 430 ; Daily kms. Operated 357,000 ; No. of passengers carried daily 325,000. Nationalisation of passenger road transport in State completed on Nov. 30, 1972.

PRESS : Hindi : Haryana Nirman, Rohtak ; Haryana Times, Mahendragarh ; Mewat, Gurgaon ; Sunehri Bharat, Gurgaon.

HIMACHAL PRADESH STATE

CAPITAL : Simla ; **Population :** 55,326 ; **Area of State :** 55,673 sq. kms. ; **Population of State :** 3,460,434 ; **Density :** 62 per sq. km. ; **Literacy :** 31·32 per cent ; **Sex Ratio :** 974 Females per 1,000 Males.

District	Head-quarters	Area in '000 sq. kms.	Population
Chamba	Chamba	8·2	255,233
Kangra	Dharamsala	5·3	800,863
Mandi	Mandi	4·0	515,180
Kulu	Kulu	5·4	192,371
Lahul & Spiti	Kyelang	12·0	23,538
Bilaspur	Bilaspur	1·2	194,786
Simla	Simla	5·0	419,844
Sirmur	Nahan	2·8	245,033
Kinnaur	Kalpa	6·4	49,835
Solan	Solan	2·1	237,403
Hamirpur	Hamirpur	1·6	265,011
Una	Una	1·5	261,337

State Boundaries : The State is bound by Jammu and Kashmir in the north, by Punjab in the west and south-west, by Haryana in the south, Uttar Pradesh in the south-east and by Tibet in the east.

State Language : Hindi.

AGRICULTURE : The main agricultural wealth of the State consists of fruits such as apple, apricot, peach and vegetables like seed potato, ginger, tomato, peas etc. Salt is another important item, while forests yield, timber, firewood and charcoal. Seed potatoes is the chief cash crop. During 1972-73 an estimated 94,800 tonnes of potato had been produced over an area of 18,500 hectares. Forests supply the largest quantities of coniferous timber in northern India. Estimated revenue for 1973-74 being Rs. 72·70 million. (See Chapter on "Agriculture" for details.)

Irrigation and Power Projects : The State's hydel power potential constitutes about 20 per cent of the aggregate hydro power resources of the country. The rivers Sutlej and Beas provide about 80 per cent of the total hydel power resources of the State. Almost all the hydro-electric projects in the State lend themselves to easy execution and expeditious completion. (For details see chapter on "Irrigation and Power".)

INDUSTRIES : The two major industrial ventures— the Rs. 300 million newsprint factory in the private sector and Rs. 80 million cement plant in the public sector — are to be set up soon. It is expected that the newsprint factory when commissioned will produce 200 tonnes of newsprint a day and will give employment to 10,000 persons. The cement factory will have a capacity of 600 tonnes daily.

At present two main units, the Bilaspur turpentine and rosin factory and Nahan foundry and rosin factories are producing turpentine oil, rosin, varnish, mono-block pumps, electric metres, sugarcane crushers and several other agricultural implements. During the last four years, as many as 576 industrial units, big and small, have been set up.

The number of small-scale industrial units increased rapidly with the integration of new areas in 1966. At present, there are 4,000 such units in the State.

Industrial Development Agencies : Himachal Pradesh State Small Industries and Export Corporation Ltd., Simla 171001. Himachal Pradesh Financial Corporation, The Mall, Simla 171001. Mineral and Industrial Development Corporation Ltd., Kishore Bhawan, The Mall, Simla 171001.

Labour : Total No. of workers in the State (1971 census): 1,260,806; Workers as per cent of total population: 36·82; Cultivators: 902,767; Agricultural labourers: 53,569; Other workers : 304,470; Non-workers : 2,163,526.

Industrial Disputes (1969): No. of disputes : 1; No. of workers involved : 16,000; No. of man-days lost : 32,000.

Trade Unions (1968) : No. of unions on register : 86; No. of unions submitting returns: 53; Total membership : 11,000.

EDUCATION : Schools: (1972-73) Primary schools: 5,009; Middle schools : 1,273; High schools and Higher Secondary schools : 463; Sanskrit institutions : 7.

Colleges : Colleges for general education : 18.

University : Himachal Pradesh University, Summer Hill, Simla 171005. Established : 22nd July, 1970.

Enrolment :

			Boys	Girls
Primary Stage	..	..	245,000	151,000
Middle Stage ..	..	..	98,000	32,000
Secondary Stage	..	..	41,000	11,000
Colleges ..	..	..	12,000	2,000

PUBLIC HEALTH (1972-73): District hospitals 12; City hospitals 29; State hospital 1; Civil dispensaries 151; Ayurvedic hospitals 2; Ayurvedic dispensaries 373; Primary Health Centres : 74.

COMMUNICATIONS (1971) : States carriers : 1,265; Private buses: 82; Trucks (Public Carriers): 1,560; Trucks (Private Carriers): 110; Private cars: 1,190; Taxis : 60; Motor Cycle/Scooters : 1,520; Miscellaneous : 370.

Length of Motorable Roads : (as on 31st March, 1973): Double-lane heavy vehicular roads : 1,782 kms.; Single-lane heavy vehicular roads: 7,477 kms.; Jeepable roads: 589 kms.; Less than jeepable : 2,982 kms.; Metalled and tarred roads : 2,635 kms.

FIFTH FIVE YEAR PLAN : Planning Commission has approved a tentative outlay of Rs. 2,314 million. It will be distributed as follows : Agriculture : Rs. 491·90 million; Co-operation and Community Development: Rs. 63·50 million; Irrigation & Power: Rs. 494·50 million; Industries & Mining : Rs. 90·50 million; Transport & Communications : Rs. 554 million; Social Services : Rs. 554·80 million; Miscellaneous : Rs. 64·80 million.

GENERAL : Rivers : The Sutlej, the Beas, the Ravi, the Chenab and the Yamuna.

Lakes : Govind Sagar, Renuka and Rewalsar.

Minerals : Himachal Pradesh is known to have rich deposits of limestone, gypsum, dolomite, barytes and pyrites. These are mainly found in Sirmur, Bilaspur, Simla, Chamba and Kangra districts.

JAMMU AND KASHMIR STATE

CAPITAL: Summer — Srinagar; Winter — Jammu.

Area of State: 222,870 sq. kms. of which 84,112 sq. kms. is occupied by Pakistan.

The State has a bi-cameral legislature.

Population of State : 4·617 million. **Sex Ratio :** 883 females per 1,000 males. **Literacy :** 18·58 per cent.

District			Area in '000 sq. kms.	Population
Anantnag	..	..	5·4	830,455
Srinagar ..	..	..	3·0	826,820
Baramula	..	..	7·5	775,657
Ladakh ..	..	..	95·9	105,001
Doda ..	..	..	11·7	341,858
Udhampur	..	..	4·6	339,008
Jammu ..	..	..	3·2	730,884
Kathua ..	..	..	2·7	274,165
Rajauri ..	..	..	4·3*	220,730
Poonch ..	..	..	—	170,598

* Includes area of Poonch district also.

The district headquarters are of the same name except for Ladakh district where the headquarter is Leh.

Religion-wise break-down of population : (1971) Muslims: 3,040,129; Hindus: 1,404,292; Christians: 7,182; Buddhists : 57,956; Jains : 1,150; Sikhs : 105,873.

Major Cities (over 100,000 population): Srinagar, Population: 403,413; Area 47·08 sq. kms; Jammu, Population : 155,338; Area 20·46 sq. kms.

Number of Villages (inhabited) 6,559 (Census 1971).

State Boundaries : The State is bound by Pakistan in the west, Afghanistan and U.S.S.R. in the north-west, China in the north, Tibet in the east and by Himachal Pradesh and Punjab in the south.

State Languages : (*a*) *Official :* Urdu. English will continue till replaced by Urdu by an Act of Legislature.

(*b*) *Regional :* Kashmiri, Dogri, Balti, Dardi, Pahari and Ladakhi.

AGRICU[illegible]URE : Agriculture is the main occupation of the people. More than 80 per cent of the population depends on it. Paddy, wheat and maize are the main crops except in Ladakh where gram is grown. Besides, jawar and bajra are also grown in some parts of the Jammu region.

The production of food grains in 1973-74 was one million tonnes and of fruits 0·154 million tonnes.

Land Ceiling : 9·21 hectares.

Net Area Irrigated (1973-74): ·280 million hectares.

See chapter on "Agriculture" for more details.

Forest Development : The State is rich in forests. A rich variety of pine, fir, birch, hazel, wild oak, maple and beech grow there.

These forests are a regular haunt of lovers of sport and adventure who can find ibex, musk deer, wolf, fox, red bear, black bear, barasingha, pig etc. A variety of winged game such as duck, goose, chakor, monal pheasant, partridge and snipe is found in low forest, on swamps and banks of the lakes.

The State has a forest area of over 21,080 sq. kms. Of this 7,477 sq. kms. are available for timber exploitation and the rest function chiefly as protective forests.

Foodgrains imported (1972-74) : Rice 0·475 million quintals; Wheat 0·641 million quintals.

Foodgrains exported: 1,700 tonnes.

Per capita availability of food-grains: 2·40 quintals.

Animal Husbandry : A chain of 7 intensive sheep development projects have been started in the State. So far 75,000 sheep of exotic varieties have been evolved.

Dairying : During the Fifth Plan period the Department proposes to spend about Rs. 150.00 million on various schemes and raise the milk production by 214,000 tonnes by the end of 1973-74 and per capita consumption to 124 grams.

Poultry : Great stress is being laid in State on poultry development. During the Third Five Year Plan, a couple of poultry development schemes were implemented. Two Central poultry farms one at Belicharana at Jammu and the other at Srinagar were also set up with about 400 layers as the basic stock. The number of layers in Belicharana has increased from 500 in 1967-68 to 2,000 in 1968-69. For the Fourth Plan the target for the two Central Farms has been fixed at 4,000 layers each. During the Fourth Plan Rs. 6·0 million have been provided to be spent on the scheme.

Fisheries Production : About 65,190 quintals during 1973-74.

Major Irrigation and Power Projects : See chapter on "Irrigation & Power Projects".

INDUSTRIES : Industry-wise distribution of factories registered under Factories Act is as under :—

Industry	No. of Units	Employment
Textiles	66	6,900
Wood	33	950
Minerals	5	841
Chemical & Chemical Products	6	406
Food	13	396
Leather & Leather Products	2	245
Others	69	2,327

Industrial Development : Out of the 25 medium and large-scale units, 19 fall in the public sector. Of these, 18 units are being administered by the two State Corporations, namely, the Jammu & Kashmir Minerals Ltd., and the Jammu & Kashmir Industries Ltd. The large-scale industrial units include : spinning mills, silk weaving factories, woollen mills, joinery mills, rosin and turpentine factory, match factory, brick and tile factory, cement factory, prestressed concrete factory, briquetting plant etc.

The leather exports of the Jammu and Kashmir Industries Ltd. have risen from Rs. 3 million in 1969-70 to more than Rs. 6 million in 1973-74.

The silk weaving factory provides direct employment to about 2,000 people and indirectly to about 40,000.

The construction of the Hindustan Machine Tool Watch Factory near Srinagar was commenced in 1971-72. The ancillary factory of the Indian Telephone Industries Ltd. at Srinagar has started production.

The direct export of handicrafts has shown a substantial increase from Rs. 12.5 million in 1970 to Rs. 13.00 million in 1973-74.

EDUCATION 1973-74 :

	No. of Institutions	No. of Teachers	No. of Pupils
Primary	5,363	6,945	253,000
Middle Schools ..	1,500	6,483	166,000
High Schools ..	600	8,500	211,500
Colleges	42	1,053	25,000
Professional Insts. ..	11	370	3,000
Universities	2	146	1,780

Jammu and Kashmir is perhaps the only State in the country where education is free and has been brought within the reach of even the poorest sections of the population.

The overall budget of the Education Department which stood at Rs. 3·349 million in 1947-48 has gone up to about Rs. 20·00 million in 1973-74.

The number of primary educational institutions has risen from 1,571 in 1947-48 to 7,346 in 1973-74. The number of middle schools has gone up from 203 in 1947-48 to 1,500 in 1973-74. On the eve of independence there were 54 high schools, the number rose to 60 in 1973–74.

The State has two Universities — the University of Jammu and the University of Kashmir — with 32 teaching departments and 40 affiliated colleges at the end of 1973-74. Besides, there is 1 Agricultural College, 2 Teachers Training Colleges, 1 Engineering College, 2 Polytechnics, 2 Fine Arts Colleges, 1 Commerce College, 2 Medical Colleges and 1 Ayurvedic College.

A Sainik School was started last year at Nagrota in Jammu at a cost of Rs. 6·8 million.

The construction of a residential public school for meritorious boys at Manasbal in Kashmir has been taken in hand.

PUBLIC HEALTH (1972-73) : Main hospitals : 2; Special type hospitals : 8; Women's hospital : 1; District hospitals : 9; Sub-district hospitals : 6; Unani/Ayurvedic hospitals : 2; Primary Health centres : 77, Sub-centres : 187; Allopathic dispensaries : 210; Ayurvedic/Unani dispensaries : 365; Medical Aid centres : 15; Venereal Disease clinics : 12; T.B. clincis : 13; Leprosy hospitals, Control Units and Surveillance, Education and Treatment centres of leprosy : 41; Family Planning centres : 71; Family Planning Sub-centres : 85; Psychiatric clinics: 2; No. of Beds in hospitals : 4,604; No. of doctors : 1,042; No. of Nurses : 401; Midwives : 112; Auxiliary midwives & nurses : 278; Basic Health workers : 403; Hakim & vaids : 431.

Per capita expenditure of 47 paise on public health in 1947 has risen to Rs. 14·29 at present.

NUMBER OF VEHICLES (1974): Buses 1,300; Trucks 3,787; Station Wagons, Cars and Jeeps 3,200; Motor Cycles and Scooters 1,800; Others 398.

Length of Motorable Roads : (1974) 6,756 kms.

Kashmir Division : The budget grant for road development programme in the Kashmir Division for the year 1973-74 was Rs. 42.00 million. With the fulfilment of some targets the overall road length in State was expected to be 6,770 kms.

PRESS : Leading Dailies : (English) published from Jammu: *Excelsior, Kashmir Times.*

(Urdu) published from Jammu: *Imarat, Sandesh, Qaumi Awaz* and *Ujalla.*

(Urdu) published from Srinagar: *Khidmat, Aftab, Hamdard, Zamindar, Chinar, Wullar, Srinagar Times, Daily Azan, Daily Economic Post, Martand* and *Navajeevan.*

In addition 56 weeklies are also being published from the State.

TOURISM : Greater attention has been paid by the State Government to the development of popular tourist resorts, such as Cheshmashahi, Dal Lake, Pahalgam, Kokernag, Achhabal and Gulmarg. A number of tourist reception centres, rest houses, hutments, parks and dormitories have been constructed and existing ones improved.

The State Government Transport Undertaking operates eighty-five special de luxe coaches along the national highway from Pathankot to Srinagar. Luxury coaches and cars are put into operation for sight-seeing trips to places of tourist interest.

The India Tourism Development Corporation has constructed a 40-room motel at Jammu on the National Highway to Srinagar at a cost of Rs. 2.5 million.

Gulmarg, the meadow of flowers, is developing into a prominent spot for winter-sports. The State Tourism Department has streamlined the arrangements for winter sports. Skating rinks, rope tows and other necessary equipment are made available to the sportsmen.

A 100-bed Tourist Hostel is being constructed at Katra (Jammu) which is nearing completion.

GENERAL

Important Rivers : The Jhelum; the Tawi; the Sindh; the Chenab and the Ravi.

Important Lakes : Dal Lake; Wuller; Manasbal; Nagin Lake and Suriansar Lake.

KARNATAKA STATE

CAPITAL: Bangalore. **Area :** 174·71 sq. kms.; **Population :** 1,653,779.

Area of State : 191,773 sq. kms. **Population of State :** 29,299,014. **Density :** 153 per sq. km. **Sex Ratio :** 957 females per 1,000 males. **Literacy :** 31·52 per cent.

Districts	Area in '000 sq. kms.	Population
Bangalore	8·0	3,365,515
Tumkur	10·6	1,627,721
Chitradurga	10·9	1,397,456
Kolar	8·2	1,516,646
Bellary	9·9	1,122,686
Mysore	11·9	2,077,238
South Kanara	8·4	1,939,315
Coorg	4·1	378,291
Hassan	6·8	1,102,370
Shimoga	10·5	1,301,485
Chikmagalur	7·2	736,647
Mandya	5·0	1,154,374
Belgaum	13·4	2,423,342
Bijapur	17·1	1,985,591
North Kanara	10·3	849,105
Dharwar	13·7	2,342,213
Gulbarga	16·2	1,739,220
Bidar	5·5	824,059
Raichur	14·0	1,415,740

The headquarters of the districts are of the same name except for the following districts where the name of the headquarters are given in the brackets: South Kanara (Mangalore); Coorg (Mercara); North Kanara (Karwar).

MAJOR CITIES (Over 100,000 population)

Name	Area sq. kms.	Population
Bangalore	174·71	1,653,779
Hubli-Dharwar	182·30	379,166
Mysore	37·30	355,685
Mangalore	45·43	215,122
Belgaum	34·84	213,872
Gulbarga	13·97	145,588
Bellary	27·71	125,183
Davanagere	19·42	121,110
Bijapur	14·50	103,931
Shimoga	5·96	102,709
Bhadravati	12·21	101,358
Kolar Gold Fields	65·73	118,861

No. of Villages : Inhabited 26,382; uninhabited 2,707; total 29,533.

State Boundaries : The State is bound by Kolhapur, Sangli, Sholapur, Osmanabad and Nanded districts of Maharashtra in the north, Medak, Hyderabad, Mahbubnagar, Kurnool, Anantapur and Chitoor districts of Andhra Pradesh in the east, Salem and Nilgiri districts of Tamil Nadu in the south-east, Kannanore district of Kerala in the south and Arabian Sea in the west.

State Language : Kannada (The process of switch-over from English to Kannada is in progress. At present Kannada is the official language upto the district level).

Area under Land Utilisation in Hectares (1971-72) : Net area sown 10,330,975; Area sown more than once 656,924; Area under forests 2,895,158; Waste lands: (*a*) Land not available for cultivation 1,829,478; (*b*) Other uncultivated land excluding fallow land 2,495,758; Fallow land 1,494,205.

AGRICULTURE : (FINAL FORECAST FIGURES) 1973-74

Principal crops	Area (hectares)	Production (in tonnes)
Rice	1,141,613	2,068,764
Ragi	1,007,325	882,798
Jowar	2,215,127	1,696,956
Wheat	347,862	188,746
Total cereals	**5,730,052**	**5,653,736**
Gram	157,328	69,318
Total pulses	**1,206,376**	**497,413**
Groundnut	905,553	637,786
Sesamum	74,172	21,773
Total oil seeds	**1,242,320**	**725,025**
Sugarcane	109,138	9,157,666
Cotton	997,994	625,746†

† Production ot cotton in forms of Bales of 180 kgs.

Land Reforms: Ceiling per family: 4.047 hectares of 'A' and 'B' class of land, 8.094 hectares of 'C' class land and 16.187 of 'D' class land plantations are exempted.

No person who has an annual income of Rs. 12,000 or more from any non-agricultural source can acquire agricultural land after March 1, 1974. From the same date all tenanted lands have been transferred to the Govt. and the traditional tenant-landlord relationship has been snapped. No agricultural land can be sold for non-agricultural purposes.

Irrigation — 1971-72 : Net area irrigated 1,377,599 hectares; Gross area irrigated 1,598,093 hectares.

Irrigation and Power Projects: See chapter on "Irrigation and Power."

MAJOR INDUSTRIES (1973-74)

Type of Industries	No. of factories existing	Production in tonnes
Iron and Steel	1	454,209
Cement	4	1,151,054
Sugar	13	301,836
Paper	3	72,892
Vanaspati	5	5,711

Large and medium industries : Total capital: Rs. 4,282.8 million ; Employment : 0.176 million ; No. of factories : 539. (These figures exclude the Government of India sector.)

Sericulture is the most important of rural industries providing employment to about 2 million people.

Industrial Estates : No. of Government Estates : 27.

Industrial Development Agencies : See chapter on "State Corporations."

LABOUR : No. of Unions : There were 8,500 trade unions on register in 1973.

No. of Workers : Total No. of workers, including farm labourers (1971 census) was 10·2 million.

Industrial disputes (1973-74) :

Strikes : (i) No. of strikes 68 ; *(ii)* No. of workers involved 34,467 ; *(iii)* No. of man-days lost 278,146.

Lockouts : (i) No. of lockouts 20 ; *(ii)* No. of workers involved 11,239 ; *(iii)* Mandays lost 208,944.

EDUCATION : (1972-73) : **No. of Schools :** Lower Primary — 21,800 ; Higher Primary — 11,200 ; Secondary — 2,180.

Enrolment : Standard I to IV — 3·19 million ; Standard V to VII — ·95 million ; Standard VIII and above — ·48 million ; Colleges — ·16 million.

No. of Teachers : Lower Primary — 33,932 ; Higher Primary — 66,030 ; Secondary — 24,000.

No. of Colleges : Government — 19 ; Private — 174.

Technical Education : No. of Engineering Colleges : 15; intake 2,230 ; No. of Polytechnics 13 and No. of women's Polytechnics 3 ; intake in both 3,500.

Universities : Bangalore University, Bangalore 560001, Karnataka University, Dharwar 580003; University of Agricultural Sciences, Bangalore 560003 University of Mysore, 570001 ; Indian Institute of Science, Bangalore 560012.

PUBLIC HEALTH (1973-74) : No. of Hospitals : 193 ; Beds : 24,619 ; Dispensaries : 1,418 ; Beds : 4,197. No. of Medical Colleges : 9 ; Intake capacity : 1,350.

COMMUNICATIONS : (1972–73)

Length of roads (1972-73): 78,614 kms. ; National Highways 1,968 kms. ; State Highways 6,005 kms. ; Major district roads 14,229 kms. ; Other district roads 9,652 kms.; Village roads 46,760 kms.

Total length of railway : 2,757 kms. including the Bangalore-Salem rail link. Metre gauge 2,062 kilometres ; Narrow gauge 154 kilometres.

The 198 kms. Hassan-Mangalore rail link has been included under the Central Sector of the Fourth Five-Year Plan. The 241 kms. Bangalore-Salem rail link has been completed.

No. of airports : 3 (Bangalore, Belgaum and Mangalore); No. of airstrips : 4.

Post and Telegraphs (1972-73) No. of Post offices 8,530 ; Telegraph offices 1,325. Telephone exchanges 283; Telephones 69,095.

PRESS : *English :* Deccan Herald, Bangalore 560001; Hindu, Bangalore 560001 ; Indian Express, Bangalore, 560001 ; *Kannada :* Prajavani, Bangalore 560001; Kannada Prabha, Bangalore 560001 ; Samyukta Karnataka, Bangalore 560025 — and Hubli ; Nav Bharat, Mangalore 575003 ; Janavani, Bangalore 560001 ; Udayavani Udipi 576101 ; Vishwavani, Hubli 580020; *Marathi :* Tarun Bharat, Belgaum 590001 ; *Urdu :* Daily Salar, Bangalore 560001 ; Pasban, Bangalore 560001 ; Azad, Bangalore 560001 ; *Sanskrit :* Sudharma, Mysore 570001.

GENERAL : Rivers : There are two great river systems in Karnataka : that of the Krishna in the north and the Cauvery in the south. The only streams flowing west to the Arabian sea are those in the north-west, which, uniting in the Sharavati, hurl themselves down the Ghats in the magnificent Gersoppa or Jog falls.

Rivers that flow into the Krishna : the Tunga, the Bhadra, both these uniting in the Tungabhadra and the Hagari (or Vedavati).

Rivers that flow into the Cauvery : the Hemavati, the Lokapavani, the Shenisha, the Arkavati, the Lakshmantirtha, the Kabbani or Kapila and the Honnuhole or Suvarnavati.

Other Rivers: The Varada, the Kalinadi, the Gangavali, the Tadri, the Netravati, the Kumaradhari, the Gurpur, the Swarnanadi, the Sitanadi, the Malprabha, the Dharma, the Don, the Bhima and the Ghatprabha.

Minerals : Gold, silver, iron ore, chromite, china clay, limestones, coruandum, gamet, emery, asbestos, bauxite, fuller's earth, quartz, ochre, fellspar and silica.

KERALA STATE

CAPITAL: Trivandrum. **Area:** 44·52 sq. kms.; **Population:** 409,627.

Area of the State: 38,855 sq. kms.; **Population of the State:** 21,347,375. **Density:** 549 per sq. km.; **Sex Ratio:** 1,016 females per 1,000 males. **Literacy:** 60·42 per cent.

Districts	Area in sq. kms.	Population (million)
Trivandrum	2,192	2·19
Quilon	4,623	2·41
Alleppey	1,884	2·12
Kottayam*	2,195	1·53
Ernakulam*	2,379	2·16
Trichur	3,032	2·12
Palghat	4,400	1·68
Malappuram	3,638	1·85
Kozhikode	3,729	2·10
Cannanore	5,706	2·36
Idukki*	5,127	0·76

Major Cities: (Over 100,000 population)

Name	Area in sq. kms.	Population
Cochin	82·00‡	439,066‡
Trivandrum	44·52	409,627
Calicut	30·61	333,979
Alleppey	46·62	160,166
Quilon	16·34	124,208

No. of Talukas: 57; Villages: 1,635; Municipal Towns: 29; Corporations: 3; Panchayats: 967.

State Boundaries: The State is surrounded by South Kanara, Mercara and Mysore districts of Karnataka State in the north, Nilgiris, Coimbatore, Madurai, Ramanathapuram, Tirunelveli and Kanyakumari districts of Tamil Nadu in the east and south; and by Arabian Sea in the west.

State Language: Malayalam.

AGRICULTURE: The per capita extent of cultivated area is 0·11 hectares (1971-72).

Food Crops: Rice, jowar, ragi, tur, sugarcane, pepper, chillis, ginger, turmeric, cardamom, arecanut, mango, citrus fruits, banana, cashewnut, tapioca, sweet potato and onion.

Main Crops are paddy coconut, arecanut, pepper, turmeric, ginger, sugar, tea, coffee, rubber etc.

No. of Plantations: Rubber: 115,072; Tea: 2,928; and Coffee: 22,048.

Dairying: At present there are four dairy plants in operation. The location, capacity and daily production respectively are: Calicut — 6,000 litres, 5,705 litres; Trivandrum — 6,000 litres, 9,323 litres; Ernakulam—10,000 litres, 4,132 litres; Kottayam—6,000 litres, 3,423 litres.

Fisheries: See chapter on Fisheries.

Forests (1972-73); Forests occupy about 23·15 per cent of the area.

The State has 107,925 hectares of man-made forests. This consists mainly of Teak (55,758 hectares), Eucalyptus (25,701 hectares), Softwood (17,880 hectares), Cashew (3,355 hectares) and miscellaneous species (5,231 hectares).

INDUSTRIES: Names of different industries and number of units in 1971 are Oil 234; Tea 117; Cashew 266; Beedi and Cigar 35; Cotton Textiles 172; Coir 130; and Saw mills 318; Plywood, Splints and Veneers 169; Other wood Industries 83; Printing 226; Rubber 79; Chemicals 63; Matches 35; Soaps 9; General Engineering 108; Tiles 229; Automobile repairing 153; Other Industries 619. Total number of Industries are 3,024.

Joint Stock Companies: As many as 40 private companies and 3 public companies were newly registered in 1972-73. The total number of companies as on 31-3-1973 was 1,159. Of these 352 were public companies and 807 private companies.

Industrial Development Agencies (See chapter on State Corporations).

Labour (as on 31-12-1971): No. of registered factories: 3,144; No. of working (Registered) factories: 3,024; No. of working factories which submitted their annual returns: 1,815; Average daily employment in the working factories submitting returns: 114,269; Total average daily employment (estimated) in all the registered working factories: 206,839; No. of accidents (including fatal cases) in registered factories: 2,389; No. of fatal accidents: 5.

No. of Workers: 280,880; No. of unemployed: 238,575 (Employment Exchange report); Total employed: 718,800; Employed in Industries: 295,400; Employed in Agriculture: 95,000; Employed otherwise: 332,600.

No. of registered trade unions/federations as on 31-12-1969: 2,555. No. of Trade Unions: 2,571.

EDUCATION: Particulars showing the number of students in schools run by Government and private bodies for 1972-73 are as follows:

Number of students under instruction 5·15 million; Gross Expenditure on General Education: Rs. 576·1 million.

Distribution of Institutions: High Schools (including Post Basic and Anglo-Indian Schools) 1,505; Post Basic Schools 3; Anglo-Indian High Schools 7; Upper Primary Schools (including S. B. Schools) 2,547; Senior Basic Schools 71; Anglo-Indian U.P. Schools 1; Lower Primary Schools (including Junior Basic and Anglo-Indian Schools) 6,887; Nursery Schools 38.

Professional and Special Schools: Basic Training Schools 105; Anglo-Indian Training School 1; Fine Arts Schools 2; Schools for the Handicapped 7.

Other Institutions: Hindi Training Institutes 2. Language Teachers Training Centres 6.

Colleges and other educational institutions with number of students respectively: Teachers' Training Schools, 105; —; Polytechnics: 14; 1,982; Industrial Training Institutes: 36[illegible] —; Junior Technical Schools: 21; 1,260; Arts and Science Colleges: 120; 142,697; Engineering Colleges: 6; 3,625; Medical Colleges: 4; 2,294; Ayurveda Colleges: 3; —; Agricultural Colleges: 1; 200; Veterinary College: 1; 210; Law Colleges: 3; 899; Teachers' Training Colleges; 19; 2,390; Sanskrit Colleges: 2; —; Music College: 1; —; Music Academies: 2; —; Per Capita expenditure on Education: Rs. 25·18.

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* Provisional. ‡ Combined area and population for Cochin—Ernakulam—Alwaye Town Group.

Universities : Kerala Farm University, Mannuthi, Trichur; University of Kerala, Trivandrum; University of Calicut, Calicut; Cochin University, Thrikkakara, Cochin.

PUBLIC HEALTH (Figures as on 1-1-1973): Government Hospitals: 117; Beds 19,501; Secondary Health Centre: 1; Beds 122; Primary Health Centres: 163; Beds 1,510; M. C. H. Centre: 1; Beds 20; T.B. Clinics: 10; Beds 266; Dispensaries: 433; Beds 1,457; Mobile Dental Hospital: 1; Grant-in-aid institutions: 11; Beds: 830.

Per Capita expenditure on health services (1971-72); Rs. 9·16.

COMMUNICATIONS (As on March 31,1973): Goods vehicles 14,164; Stage carriages: 7,174; Taxi cabs: 10,442; Motor Cars: 38,087; Jeeps: 6,089; Motor cycles: 17,715; Auto-rickshaws: 1,591; Tractor/Trailers: 2,691; Others: 1,476; Total: 99,429.

State Transport: (as on March 31, 1974): No. of buses: 1,958; No. of lorries: 17; Other vehicles: 83; No. of routes 1,751; Route Kilometrage: 71,000; Employees: 18,723; No. of passengers transported per day by the State Transport: 1·05 million.

Roads: The State has a total road length of 18,432 kms. of which 15,123 kms. are surfaced. National Highways 448 kms.; State Highways 1,282 kms.; Major District roads 5,143 kms.; Other District roads 7,081 kms.

Railways : The total length of railway line is 889·93 kms. of which 553·39 kms. are on the broad gauge system and 336·54 kms. on the metre gauge system.

PRESS*

Leading Dailies (1972): in Malayalam with their circulation: Deepika, Kottayam 58,943; Desabhimani, Kozhikode 40,000; Express, Trichur 36,508; Janayugam, Quilon and Kozhikode 32,236; Kerala Kaumudi, Trivandrum 142,317; Malayala Manorama, Kottayam and Kozhikode 317,974; Mathrubhumi, Kozhikode & Ernakulam 265,842.

GENERAL

Rivers : The rivers provide an extensive system of inland waterways of great commercial importance. The longest are Bharatapuzha, 267 kms. and Periyar, 228 kms.

Other chief rivers are the Valapattanam, Chaliyar, Kadalundi, Chakakudi, Pampa, Achan Koil and Kallada.

Fresh Water Lakes : Enamakkal, Manakkodi, Villani, Sashankotta and Vembanad.

Minerals : Thorough investigation of the State's mineral resources is yet to be made. The minerals now being exploited are china clay, quartz, lime shell and the mineral sands consisting of ilmenite, rutile, monazite, zircon and sillimanite.

Recent geological surveys have shown the presence of high quality of iron ore and bauxite in northern Kerala.

LAKSHADWEEP

(Union Territory)

THE Lakshadweep group of coral islands lying between 8° and 12° north latitude and 71° and 74° east longitude in the Arabian sea, 320 km. off the west coast of Kerala constitute the smallest Union Territory.

The islands were constituted into a Union Territory on 1st Nov., 1956 with an Administrator.

Headquarters : Kavaratti island. **Area :** 3·6 sq. kms.; **Total Area of the Territory :** 32 sq. kms.; **Total Population :** 31,810 (Males: 16,078; Females: 15,732); Decennial population growth rate 1961-71: 31·95 per cent; *Density :* 994 per sq. km.; *Sex ratio :* 978 females for 1,000 males; *Literacy :* 43·66 per cent.

Total No. of Islands : Inhabited: 10; Uninhabited: 17.

Inhabited Islands : 1971 census.

Island	Area sq. kms.	Population
Minicoy	4·4	5,342
Kalpeni	2·3	3,152
Androth	4·8	5,425
Agatti	2·7	3,155
Kavaratti	3·6	4,420
Amini	2·6	4,542
Kadmat	3·1	2,416
Kiltan	1·6	2,046
Chetlat	1·0	1,200
Bitra	0·1	112
Total	32·0*	31,810

* Includes area of uninhabited islands.

Administration : The head of the administration is the Administrator, appointed by the Union President.

The Collector-cum-Development Commissioner is in overall charge of the developmental activities and law and order.

The entire Territory has been divided into 4 tahsils, each under a Tahsildar, with headquarters at Minicoy, Andrath, Kavaratti and Amini islands.

Judicial Administration : The District and Sessions judge, Calicut, Kerala has jurisdiction over the islands.

AGRICULTURE : It is mainly confined to coconut cultivation. The total production of coconuts in the island during 1973-74 was 20·5 million. The total area under coconut cultivation is about 2,855 hectares.

Fruit plants like banana, papaya, guava, sopota and some citrus varieties and drum-stick plants are cultivated as inter-crops. Vegetables such as chillies, tomato, brinjal, sweet potatoes are also grown.

Livestock and Animal Husbandry : At present there is one dairy unit at Kavaratti with a strength of 32 cows, 28 calves and 2 bulls.

Poultry : There are five poultry units one each at Kavaratti, Androth, Minicoy, Kadmat and Kalpeni.

Fisheries : Mechanised boats were introduced for fishing in the islands. Hundred boats were issued to fishermen on a subsidised hire purchase system. The Territory has now its own workshops at Kavaratti, Minicoy, Kadmat, Agatti and Androth and a boat building yard at Kavaratti.

A small unit for canning tuna fish was opened at Agatti island in 1963 and also a bigger one at Minicoy in 1969. An ice factory and a cold storage were also constructed at Minicoy.

Electricity : 9 out of the 10 inhabited islands have been electrified. Bitra will be electrified in the Fifth Plan period. The total installed capacity of the power houses is 841·12 kw.

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* Figures relate to 1971. Figures for 1972 are not available.

INDUSTRIES : There are no major industries in the Territory. Coir making, oil extracting, hand loom, mat weaving, hosiery knitting and canning are some of the small industries.

One handicrafts co-operative society has been started at Kavaratti. Besides, one handicraft training centre has also been opened there.

It is proposed to start one book binding unit and a small printing press at Kalpeni during 1973-74.

EDUCATION : There are 42 schools including 6 high schools with 8,092 (including 3,300 girls) students and 359 teachers. To encourage education of girls, separate section in free schools have been opened exclusively for them. On July 15, 1972, the first college (Jawaharlal Nehru College) was inaugurated. This college is affiliated to Calicut University, Kerala.

PUBLIC HEALTH : There are at present 7 primary health centres and 2 hospitals at Kavaratti and Minicoy. One of the achievements of the Medical Department during the last decade was the control of the spread of communicable diseases like leprosy and filaria. All the leprosy cases have now been isolated in separate colonies where free medical aid is provided. At present there are 3 such colonies. There are health inspectors in all the islands and medical aid is free. Acute cases are brought out to the mainland and given free treatment. The present total bed-strength of all the hospitals and primary centres is 120 which comes to 4 per 1,000 population.

COMMUNICATIONS : Two motor vessels, one owned by the Administration and the other by the Shipping Corporation of India ply between the islands and the mainland. The motor vessel of the Administration, M. V. 'Laccadives' was launched in 1966. Since 1970 the Shipping Corporation of India has started running an all-weather ship, M. V. 'Amindivi', for the Administration.

Two motor launches, M. L. 'Laccadives' and M. L. 'Bitra', owned by the Administration, maintain inter-island services.

There are 10 post offices, 9 wireless stations and 3 telephone exchanges in the Territory. The opening of wireless stations and post offices in all the nine major islands now enable continuous communication between the mainland and the islands. A radio-telephone service between Kavaratti and mainland was established in 1972.

MADHYA PRADESH STATE

CAPITAL : Bhopal; **Area :** 71·20 sq. kms.; **Population :** 392,077.

Area of the State : 443,459 sq. kms.; **Population of the State :** 41,654,119; **Literacy :** 22·12 per cent; **Sex Ratio :** 943 Females per 1,000 Males; **Density :** 94 per sq. km.

Districts : The headquarters of the districts are the towns of the same name except Surguja which has Ambikapur as its headquarters.

Name	Area in sq. kms.	Population
Morena	11,600	984,461
Bhind	4,500	792,093
Bhopal	2,763·4	572,169
Gwalior	5,200	858,001
Datia	2,000	255,319
Shivpuri	10,300	676,338
Guna	11,100	783,541
Tikamgarh	5,100	568,877
Chhatarpur	8,700	712,296
Panna	7,100	428,121
Satna	7,500	911,825
Rewa	6,300	977,330
Shahdol	14,000	1,029,144
Sidhi	10,500	777,340
Mandsaur	10,300	961,526
Rajnandgaon	11,003	992,774
Ratlam	4,900	625,118
Ujjain	6,100	862,777
Jhabua	6,800	667,944
Dhar	8,100	841,495
Indore	3,900	1,036,332
Dewas	7,000	593,798
Khargaon (West Nimar)	13,400	1,283,170
Khandwa (East Nimar)	10,700	879,813
Shajapur	6,200	677,578
Rajgarh	6,200	645,855
Vidisha	7,400	656,011
Sehore	6,272	512,764
Raisen	8,400	552,680
Hoshangabad	10,000	805,457
Betul	10,100	736,482
Saugor	10,200	1,062,127
Damoh	7,300	573,201
Jabalpur	10,200	1,686,165
Narsimhapur	5,100	519,565
Mandla	13,300	874,762
Chhindwara	11,800	990,341
Seoni	8,800	670,901
Balaghat	9,200	980,161
Surguja	22,300	1,321,346
Bilaspur	19,900	2,441,212
Raigarh	12,900	1,277,954
Durg	19,700	2,461,525
Raipur	21,251	2,613,531
Bastar	39,100	1,514,400

Total No. of Districts : 45 ; No. of Tehsils : 190 ; No. of Municipal Corporations : 6 ; No. of Municipalities : 175 ; No. of Notified areas : 18.

Major Cities (Over 100,000 population)

Name	Area in sq. kms.	Population
Indore	55·84	572,622
Jabalpur	132·09	533,751
Bhopal	71·29	392,077
Durg-Bhilainagar	103·90	245,333
Gwalior	65·00	406,755
Ujjain	17·48	209,118
Raipur	25·17	205,909
Saugor	33·74	154,811
Bilaspur	31·34	130,804
Ratlam	12·95	118,625
Burhanpur	10·46	105,349

State Boundaries : The State is bound by Uttar Pradesh in the north, Bihar in the north-east, Orissa in the east, Maharashtra in the south and Gujarat and Rajasthan in the west.

State Language: Hindi. Main languages spoken in the State are: Hindi, Urdu, Marathi, Rajasthani, Gujarati, Sindhi and English.

AGRICULTURE : See main chapter on "Agriculture".

Land Ceiling: Various categories have been fixed ranging from 10 acres to 108 acres.

Forests (1973-74): The area of forests by composition is as follows: Teak forests 31,190 sq. kms.; Sal forests 37,898 sq. kms.; Mixed forests 58,935 sq. kms.; Misc. Forests 43,109 sq. kms.

Of the total area of 168,132 sq. kms. 79,940 sq. kms. are reserved forests, 86,848 sq. kms. are protected and 1,344 sq. kms. are unclassed forests.

Livestock Statistics (1973) ; Cattle and buffaloes: 32·18 million; Sheep and goats: 7·17 million; Average milk yield per buffalo: 326·6 kgs., Per cow 76·2 kgs.; Poultry population: 6·75 million.

There are 1,733 veterinary hospitals and dispensaries in the State. Besides, 1,398 veterinary institutions are working to improve the breeding facilities of 1·2 million breedable cows and buffaloes.

Irrigation and Power Projects: See main chapter on Irrigation and Power.

INDUSTRIES

Main Medium and Large-Scale Industries of the State with location in brackets:—

Cotton Textiles:—(Indore 7, Gwalior 2, Ujjain 4, Mandsaur 1, Dewas 1, Ratlam 1, Bhopal 1, Burhanpur 2, Rajnandgaon 1, Bilaspur 1, Khandwa 1, Sanavad 1).

Art Silk Fabrics: (Indore, Gwalior, Ujjain, Nagda); *Staple fabric yarn*: (Nagda); *Viscose Staple Fibre*: (Nagda); *Cement*: (Kymore, Banmore, Satna, Jamual, Mandhar); *Coal*: (Bilaspur 4, Betul 1, Chhindwara 10, Surguja 11, Sidhi 1, Shahdol 8).

Refractories & Firebricks: (Jabalpur, Katni); *Gun Carriage Factory* (Jabalpur); *Ordnance Factory* (Katni); *Asbestos Cement Products* (Kymore); *Sugar* (Jaora, Dalauda, Mahidpur, Dabra, Sehore, Morena); *Newsprint Paper Mill* (Nepanagar); *Currency and Bank Note Paper* (Hoshangabad); *Straw Board and Paper* (Bhopal, Ratlam, Vidisha, Sehore and Amlai); *Particle Anchor Board* (Itarsi); *Heavy Electrical Equipments* (Bhopal); *M.P.Electricals—Copper Conductor* (Bhopal); *Jute Mill* (Raigarh, Shahdol); *Flour Mill* (Indore, Bhopal, Ganj Basoda, Raipur); *Vegetable Oil* (Dewas, Khandwa, Sehore Ganj Basoda, Bilaspur, Raipur); *Iron & Steel Project* (Bhilai); *Govt. Post & Telegram Workshop* (Jabalpur); *Railway Workshop* (Raipur); *Mining of Iron Ore* (Bastar); *P.V.C. Cables* (Satna); *Textile Machinery* (Gwalior); *Power Driven Pumps* (Dewas); *Biscuits* (Indore, Gwalior); *Steel Casting & Re-rolling Mills* (Indore, Raipur 3, Kumhari, Ujjain, Gwalior, Bangrod); *Sulphuric Acid* (Nagda, Kumhari); *Superphosphate* (Kumhari); *Carbon-di-sulphide and Anhydrous Sodium Sulphate* (Nagda); *Compressed Oxygen & Dissolved Acetylene* (Bhopal); *Bichromate of Soda Chromic Acid* (Bhilai); *Moped (Gwalior)*; *Steel Forging* (Bhopal); *Plates, Round Bars* (Indore); *Mild Steel and G.I. Wire* (Indore); *Caustic Soda* (Amlai, Nagda, Nepanagar); *Synthetics* (Ujjain); *Alumina* (Korba); *Drug (Ratlam, Indore).*

Cottage Industries: Main cottage industries in the State with location in brackets:—Handlooms (100,000 looms) spread all over the State but best developed at Chanderi and Maheshwar; Silk (Raigarh, Champa, Bilaspur, Surguja); Mulberry (Indore, Jhabua, Depalpur, Dhar); Fine sarees (Chanderi, Maheshwar, Burhanpur); Woodwork and lacquerware (Sheopur, Sabalgarh, Budhni, Rewa, Gwalior); Wooden toys (Rewa, Bhopal, Gwalior, Ratlam); Softstone (Jabalpur, Chhatarpur); Lac (Seoni, Raipur, Bilaspur, Umeria and Rewa); Saw milling (Betul, Bhopal, Balaghat, Bilaspur, Raipur, Indore, Jabalpur, Saugor and Mandla); Brassware (Balaghat, Chhindwara, Indore, Gwalior, Raipur and Chhatarpur); Textile hand printing (Ujjain, Mandsaur, Morena, Indore, Hoshangabad); Diamond cutting and polishing (Panna); Papier Mache (Gwalior, Ujjain, Indore); Zari embroidery (Bhopal); Art metalware (Bastar, Betul, Hoshangabad, Satna, Mandla); Leather toys (Indore).

Industrial Estates: There is a network of industrial estates in the following places: Indore, Gwalior, Raipur, Bhopal, Jabalpur, Bilaspur, Saugor, Ratlam, Katni Burhanpur, Satna, Vidisha, Guna, Shahdol, Durg, Rajnandgaon, Bhilai, Ujjain and Neemuch.

INDUSTRIAL DEVELOPMENT AGENCIES

Madhya Pradesh Handicrafts Board: (Sultania Rd., Bhopal 462001) looks after promotion and marketing of handicrafts products of the State.

(See chapter on State Corporations).

Labour: No. of working factories: 3,677. No. of workers: 191,448 (including 22 defence factories) (Position as on 31st December, 1972).

Man-days Lost: Man-days lost due to industrial disputes: 399,096; Industrial disputes in public sector: 34; Maximum No. of workers involved: 96,885.

Panchayats and Social Welfare: The State Panchayats Act envisages a three-tier system of Panchayats viz. Gram Panchayats at village level, Janpad Panchayats at block level and Zilla Panchayats at district level. The Gram Panchayats and Janpad Panchayats came into being in 1965 and their number is 12,778 and 388 respectively at present.

For the administration of justice 2,373 Nyaya Panchayats were to be formed in the State out of which 2,316 have been constituted so far.

EDUCATION (1973-74)

Type of schools	No. of institutions	Enrolment		No. of teachers
		Boys	Girls	
Higher Sec. Schools ..	1,828	461,706	156,816	28,214
Middle/Sr. Basic Schools ..	7,568	861,096	308,223	43,127
Primary/Jr. Basic Schools	44,150	2,674,253	1,377,799	96,690
Pre-Primary Schools ..	306	12,216	10,881	682

Colleges: The following are the category-wise number of colleges for boys and girls respectively:—Universities: 10; —; Arts colleges: 85; 12; Science colleges: 13; Home Science colleges: —; 3; Agriculture colleges: 7; —; Commerce colleges: 7; —; Music & Dance colleges: 21; 1; Fine Arts colleges: 6; —; Law colleges: 22; —; Medical colleges: 15; —; Dentistry college: 1; —; Nursing college: 1; —; Veterinary colleges: 2; —; Physical education: 2; —; Social college: 1; —; Colleges of education: 11; —; University college of education: 1; —; Sanskrit colleges: 11; —.

Technical Education: Pre-vocational Training centres: 6; Secondary Technical schools: 14; Fine Arts colleges: 6; Kala Niketan 1; Polytechnics 21; Engineering colleges: 9; Govt. Women's Polytechnic 1.

Universities : With No. of Students.

Ravi Shankar Vishwavidyalaya, Raipur 22,619 ; Jivaji Rao Vishwavidyalaya, Gwalior 29,487 ; Vikram Vishwavidyalaya, Ujjain 30,306 ; Awadesh Pratap Singh Vishwavidyalaya, Rewa 17,351 ; Indore Vishwavidyalaya, Indore 16,870 ; Jabalpur Vishwavidyalaya, Jabalpur 16,874 ; Saugor Vishwavidyalaya, Saugor 3,673 ; Jawaharlal Nehru Krishi Vishwavidyalaya, Jabalpur N.A. ; Bhopal Vishwavidyalaya, Bhopal N.A. ; Indira Sangeet Vishwavidyalaya, Khairagarh 1,669.

PUBLIC HEALTH (1973) : No. of Hospitals & Dispensaries 708 ; No. of Beds 15,995 ; No. of Allopathic Hospitals 172 ; No. of Primary Health Centres 462 ; No. of T.B. Hospitals & T.B. Sanatoria 7 ; No. of Leprosy Homes and Hospitals 8 ; No. of Mental Hospitals 2 ; No. of Medical Colleges : 6 ; Dental College : 1 ; No. of Doctors (Regd.) : 4,853 ; No. of Nurses, Dais, Midwives and Health Visitors (Regd.) : 12,869.

Total No. of patients treated in the State during 1973 : 527,194 (Indoor) ; 14·92 million (Outdoor).

COMMUNICATIONS (As on 31st Dec., 1970): The M.P. State Road Transport Corporation is operating its services on 982 routes including 89 inter-State, 16 night services and 5 de luxe services. 1,877 buses serving on an average 324,300 passengers per day, run 342,275 kms. The Corporation is operating city services in Bhopal, Jabalpur, Gwalior, Indore and Ujjain.

No. of State Transport Buses : 1,200 ; Total No. of vehicles in the State : 73,171.

Roads : Black top : 13,597·58 kms ; Water-bound Macadam : 13,878·04 kms. ; Unsurfaced motorable : 5,419·12 kms. ; Unmotorable : 2,802·75 ; Total length : 43,083·49 kms.

Length of Railway lines : 5,461·3 kms.

Press (1974): Leading dailies, their places of publication and circulation figures.

Hindi : Nava Bharat, Indore/Bhopal/Raipur/Jabalpur, N.A. ; Nai Dunia, Indore, 61,208 ; Deshabandhu, Jabalpur/Raipur, N.A. ; Yugadharma, Jabalpur/Raipur, Nagpur, 28,831 ; Swadesh, Indore/Gwalior, 13,940 ; Naveen Dunia, Jabalpur, 13,988.

English : Hitavada, Bhopal, Raipur, N.A. ; M.P. Chronicle, Bhopal/Raipur, N.A.

GENERAL

Important Rivers : The Narmada, The Mahanadi, The Tapti.

Minor Rivers : The Chambal, The Kshipra, The Betwa, The Ken, The Son, The Indravati.

MAHARASHTRA STATE

CAPITAL : Greater Bombay. **Area :** 603·0 sq. kms.; **Population :** 5,970,575.

Area of State : 307,762·0 sq. kms. **Population of State :** 50,412,235. **Density :** 164 per sq. km. ; **Sex Ratio :** 930 females per 1,000 males. **Literacy :** 39·18 per cent.

Districts : 26 (232 tehsils excluding 3 tehsils in Gr. Bombay Dist., 225 Municipal towns). The names of the districts with headquarters in brackets, area in square kilometers and population, is as follows :—

Major Cities	Population	Area in sq. kms.
Greater Bombay	5,970,575	603·00
Nagpur	866,076	217·56
Pune	856,105	138·85
Sholapur	398,361	23·23
Kolhapur	259,050	66·82
Amravati	193,800	36·34
Malegaon	191,847	12·95
Nasik	176,091	58·28
Thana	170,675	26·16
Akola	168,438	20·88
Ulhasnagar	168,462	13·34
Aurangabad	150,483	40·79
Dhulia	137,129	26·75
Nanded	126,538	12·17
Ahmednagar	118,236	19·87
Sangli	115,138	20·90
Jalgaon	106,711	12·30

Greater Bombay (Bombay), 603·0, 5,970, 575 ; Thana (Thana), 9,553·0, 2,281,664 ; Kolaba (Alibag), 7,198, 1,263,003 ; Ratnagiri (Ratnagiri), 13,040, 1,990,583 ; Nasik (Nasik), 15,582, 2,369.221 ; Dhulia (Dhulia), 13,143, 1,662,181 ; Ahmednagar (Ahmednagar), 17,035, 2,269,117 ; Pune (Pune), 15,640, 3,178,029 ; Satara (Satara), 10,492, 1,727,376 ; Sangli (Sangli), 8,563, 1,539,820 ; Kolhapur (Kolhapur), 8,059, 2,048,049 ; Sholapur (Sholapur), 15,021, 2,253,840 ; Jalgaon (Jalgaon), 11,771, 2,123,121 ; Aurangabad (Aurangabad), 16,200, 1,971,006 ; Parbhani (Parbhani), 12,489, 1,506,771 ; Bhir (Bhir), 11,227, 1,286,121 ; Osmanabad (Osmanabad), 14,117, 1,896,687 ; Nanded (Nanded), 10,492, 1,397,762 ; Buldhana (Buldhana), 9,745, 1,262,978 ; Akola (Akola), 10,567, 1,501,478 ; Amravati (Amravati), 12,210, 1,541,209 ; Yeotmal (Yeotmal), 13,925, 1,423,677 ; Wardha (Wardha), 6,307, 779,562; Nagpur (Nagpur), 9,928, 1,942,688 ; Chandrapur (Chandrapur), 25,641, 1,640,137 ; Bhandara (Bhandara), 9,214, 1,585,580.

No. of Villages : 35,778 inhabited (1971 census).

State Boundaries : It is surrounded by the Arabian Sea in the west ; by Gujarat in the north-east ; Madhya Pradesh in the north ; Andhra Pradesh in the south-east ; and Karnataka and Goa in the south.

State Language : Marathi.

AGRICULTURE : Classification of land and area in '000 hectares for 1971-72† respectively are :

Total Geographical Area 30,758·4 ; Area under Forests 5,382·5 ; Net Area Sown 17,287·5 ; Gross Cropped Area 18,277·4 ; Barren & Uncultivable Land 1,783·3 ; Land put to non-agricultural use 835·4 ; Culturable Waste 1,402·1 ; Land under miscellaneous tree crops 188·4 ; Permanent Pastures and other grazing lands 1,574·5 ; Current Fallows 1,197·7 ; Area sown more than once 989·9 ; Other Fallows 1,106·9.

Area Irrigated by Sources ('000 hectares), 1971-72† : Government canals 280 ; tanks 230 ; wells 808 ; other sources 101 ; [illegible] irrigated 1,419 ; gross irrigated 1,651.

Area Irrigated by Crops during 1971-72† (In '000 hectares) : Rice 321 ; Wheat 301 ; Jowar 331 ; Sugarcane 204 ; Cotton 66 ; Groundnut 21.

See main chapter on ' Agriculture ' for details of production etc.

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† Figures are provisional.

Livestock : (1972) : Total cattle 14·70 million ; Total Buffaloes : 3·30 million ; Sheep : 2·13 million ; Goats : 5·91 million ; Horses and Ponies : 58,287 ; Pigs : 202,936 ; Camels 703 ; Other Livestock 54,351 ; Poultry : 2·22 million.

Agricultural Machinery : (1972)

Wooden ploughs : 1·78 million ; Carts : 1·52 million ; Sugarcane Crushers : 8,748 ; Oil engines with pumps for irrigation : 173,678 ; Ghanies : 2,000.

Dairying : There are 21 Government Milk Schemes operating in the State. These are in Bombay, Pune, Nasik, Dhulia, Miraj (Krishna Valley Milk Project), Sholapur, Kolhapur, Aurangabad, Akola, Amravati, Nagpur, Ahmednagar, Chalisgaon, Chiplun, Ratnagiri and Kankavali (Ratnagiri District), Mahad and Khalapur (Kolaba District), Mahableshwar (Satara District) and Arvi (Wardha District). In addition there is a dairy project at Dapchari and a Govt. Dairy and dry stock farm at Palghar (Thana Dist.).

The Creamery Project at Udgir in Osmanabad District, has been converted into a liquid milk scheme.

The average quantity of milk procured daily under all Government Milk Schemes (except Greater Bombay Milk Scheme) during December 1973, was about 309 kilolitres as against 330 kilolitres during December 1972. Out of the quantity of 309 kilolitres procured, 123 kilolitres was distributed locally by various milk schemes (except Greater Bombay Milk Scheme) and rest of the quantity was transported to meet the demand of the consumers in Bombay.

Under **Greater Bombay Milk Scheme,** about 303 kilolitres of milk was received daily in December 1973 as against 464 kilolitres during December 1972. The supply from Mofussil areas in December 1973 was about 153 kilolitres and from Kaira District Co-operative Milk Producers Union, Anand, Gujarat State, daily receipt during December 1973 was 104 kilolitres. The daily average quantity of milk (including whole, toned, cow, standardised, double toned milk) distributed by Greater Bombay Milk Scheme, in December 1973 was about 445 kilolitres as against 536 kilolitres in December 1972.

New Powder Milk Plant : This plant at Miraj is capable of converting 60,000 litres of milk a day into milk powder and butter and processing another 60,000 litres of milk.

New Milk Plant at Dhulia : Capable of processing 120,000 litres a day. Its machinery and equipment was donated by New Zealand under the Colombo Plan. It was inaugurated on 6th October, 1972.

Aarey Milk Colony : Started functioning March 13, 1949.

No. of licensee cattle owners 218 ; No. of dairy farm units 30.

No. of animals at Aarey : Buffaloes (milch) 15,444 ; (dry) 490 ; Bulls 152 ; Young Stock 3,400 ; Cows (milch) 25 (with licensees), 260 (with Government).

Average daily milk production per milch animal at Aarey : buffaloe's 7·00 litres ; cow's 3·50 litres.

Pasteurisation capacity : 18,000 litres per hour.

Bottling capacity : 40,800 bottles per hour.

Handling capacity : 250,000 litres per day.

Worli Dairy : Started functioning on November 7, 1961. Pasteurising capacity : 40,000 litres per hour ; Bottling capacity : 50,000 bottles per hour ; Handling capacity : 450,000 litres per day.

Dapchari Milk Project : No. of animals (*a*) milch cattle with family of farmers 10,000 ; with licensees 10,000 ; with research centre 1,000 ; (*b*) dry cattle : 10,000 ; (*c*) young stock 10,000.

The project will be completed in another four years and will supply milk to the extent of 125,000 litres per day.

Fisheries : See chapter on 'Fisheries'.

Irrigation and Power Projects : See chapter on 'Irrigation and Power Projects'.

Village Electrification : Out of 35,851 villages in the State ; 17,558 had been electrified up to March, 1973.

Electric Power Development : The per capita consumption of electricity in 1972-73 was 171 kwh., highest in India. The per capita consumption of the country is 97 kwh. The installed capacity as on 31st March, 1973 was 2,139 Mw. Out of the total installed capacity, 50·1 per cent was generated from steam, 39·5 per cent from hydro, 9·8 per cent from nuclear and 0·6 from oil. The consumption increased from 8,441 million kwh in 1971-72 million kwh in 1972-73.

INDUSTRIES : Textiles ; food industries ; general and electrical engineering ; petroleum ; transport and transport equipment ; sugar factories and refineries ; rubber products; basic industrial chemicals, paints, varnishes, lacquers and miscellaneous chemical products are the major industries of the State.

Large and Medium Scale Industries : Distribution of working factories (1970) district-wise is as follows :—

Greater Bombay — 4,933, Thana — 854, Kolaba — 86, Ratnagiri — 43, Nasik — 250, Dhulia — 178, Jalgaon — 198, Ahmednagar — 232, Pune — 891, Satara — 66, Sangli — 134, Sholapur — 353, Kolhapur — 370, Aurangabad — 114, Parbhani — 46, Bhir — 24, Nanded — 42, Osmanabad — 24, Buldana — 64, Akola — 102, Amravati — 88, Yeotmal — 73, Wardha — 37, Nagpur — 383, Bhandara — 174, Chandrapur — 42.

According to 1970 statistics, the number of working factories commodity-wise is :

Agricultural Processing — 442, Food — 1,319, Beverages — 38, Tobacco — 303, Textiles — 1,236, Textile for Footwear and other uses and Readymade Garments — 122, Wooden items (excluding furniture) — 268, Furniture etc. — 69, Paper and paper products — 162, Printing press and allied — 650, Leather goods (excluding footwear) — 27, Rubber and rubber products — 108, Chemicals — 579, Petrol and Coke products — 51, Petrol and Coal-based mineral products (excluding metals) — 578, Non-metallic mineral products—578, Basic metal products—366, Metal products except machinery—981, Machinery (excluding electrical machines)—821, Metal products—366, Electrical Machinery and Gadgets — 393, Transport items — 364, Miscellaneous Industries—722, Electric Gas, Steam etc.—100, Water and Cleaning services—46, Recreation services (entertainment) — 19, Personal services — 39.

Joint Stock Companies : No. of Joint Stock Companies limited by shares as on 31st March, 1973 : 7,676 ; Paid-up Capital : Rs. 9,150 million.

No. of new joint Stock Companies incorporated and registered with authorised capital (Rs. in million) respectively : 1966-67 : 227 ; 316·9 ; 1967-68 : 249 ; 406·9 ; 1968-69 : 262 ; 119·00 ; 1969-70 : 329 ; 367·5 ; 1970-71 : 462 ; 560·4.

Industrial Estates : Sixty-nine places have been selected for the location of industrial estates. Six estates are established by the Government, 58 on co-operative basis, 2 by municipal corporations, and 3 functional estates by Maharashtra Industrial Development Corporation. By March 1973, 20,488 people were employed in the industrial estates.

Industrial Development Agencies : See chapter on 'State Corporations'.

LABOUR (as on Dec. 31, 1972)

Trade Unions : No. of registered trade unions as on 31st August, 1974 : 3,194. Total membership of registered trade unions : 1,557,984. No. of registered trade unions affiliated to Indian Trade Union Congress : 109 with membership of 265,113. No. of registered trade unions affiliated to All India Trade Union Congress : 73 with membership of 73,715. No. of registered trade unions affiliated to Hind Mazdoor Sabha 43 with membership of 225,902.

No. of Factories : Total No. of registered factories 11,589.

No. of Workers : Average daily no. of workers employed in factories : 1,006,941.

The table below gives the average daily number of workers employed in various industries.

Industry	Average daily no. of workers employed
Ginning and pressing	29,760
Food (except beverages, sugar factories and refineries)	33,283
Sugar factories and refineries ..	24,598
Tobacco	30,857
Textiles	308,393
Printing, publishing and allied industries	36,270
Rubber and rubber products ..	17,383
Basic industrial chemicals and miscellaneous chemical products	80,526
Products of petroleum and coal	4,192
Non-metallic mineral products (except products of petroleum and Coal)	38,836
Basic metal industries	38,027
Metal products (except machinery and transport equipment)	54,145
General and electrical engineering	152,508
Transport and transport equipment	57,925
Other industries	99,938
All industries	1,006,941

Industrial Disputes during 1972 : During the year there were 898 disputes involving 428,711 workers with a time-loss of 3·65 million man-days. Figures for 1971 were 683 disputes involving 450,123 workers with time-loss of 2·05 million man-days.

Employment Exchange Statistics (1973)

No. of registrations : 440,714 ; No. of placements : 44,048 ; No. of vacancies notified : 88,567 ; No. on live register as at the end of the year : 697,749.

Educational Break-up of unemployed : (June, 1974) Non-matric including illiterates : 330,890 ; Matriculates : 290,795 ; Intermediates : 20,292 ; Engineering graduates & Postgraduates : 1,207 ; Medical graduates & Postgraduates : 395 ; Other graduates : 44,931 ; Other Postgraduates : 4,208.

Private Sector Employment: Greater Bombay, Thana and Poona districts provide employment to 72 per cent of the total employment in the State under private sector.

Public Sector Employment : Increased from 1·52 million in June, 1972, to 1·60 million in June, 1973. Of these 27·0 per cent were in Central Government ; 27·1 per cent in local bodies. 27·9 per cent in State government and 18·0 per cent in Quasi government.

EDUCATION

Provision in 1972-73 Budget for Gen. Education was Rs. 1,053·6 million.

TEACHING INSTITUTIONS (as on 15th July, 1973.)

Type	Number	Enrolment
Schools		
Pre-Primary	754	58,649
Primary	46,880	7,037,551
Secondary	5,875	2,432,365
Colleges		
Teachers Training	188	20,838
Higher Education	679	437,685
Professional		
Professional and Special Education	1,025	94,583

Technical Education (1973-74): Category-wise number of institutions : Engineering Colleges : 8 ; Other degree colleges : 2 ; Autonomous governing bodies : 5 ; Polytechnics : 25 ; Other diploma institutions : 17 ; Technical high schools 109 ; Industrial training instutitions and centres : 56 ; Others : 8 ; Total : 791.

Universities

1. *University of Bombay* (established in 1857) has jurisdiction over Bombay. Nine colleges of Goa are also affiliated.

2. *University of Poona*, Pune (established in 1948) has jurisdiction over Pune, Ahmednagar, Jalgaon, Dhulia, Thana, Nasik and Kolaba districts.

3. *Nagpur University*, Nagpur (established in 1925) has jurisdiction over the districts of Akola, Buldana, Amravati, Nagpur, Bhandara, Yeotmal, Wardha, Chandarapur and Rajura taluka of Vidarbha area.

4. *Marathwada University*, Aurangabad (established in 1958) has jurisdiction over the five districts of Marathwada area viz. Aurangabad, Bhir, Nanded, Osmanabad and Parbhani.

5. *Shivaji University*, Kolhapur (established in 1963) has jurisdiction over Kolhapur, Sholapur, Satara, Sangli and Ratnagiri districts.

6. *Shrimati Nathibai Damodar Thackersey Women's University*, Bombay (established in 1949), is exclusively for women and has unrestricted territorial jurisdiction.

7. *Mahatma Phule Agricultural University*, Rahuri, Ahmednagar district (established in 1968).

8. *Panjabrao Deshmukh Agricultural University*, Akola (established in 1969) has jurisdiction over revenue divisions of Nagpur and Aurangabad.

(For further details of the universities in Maharashtra State, see chapter on Education.)

PUBLIC HEALTH

	Hospitals		Dispensaries		Total	
	No.	Beds	No.	Beds	No.	Beds
State Government.. ..	105	21,100	24	20	129	21,120
Central Government ..	26	2,754	15	27	41	2,781
Mun. and local bodies ..	91	6,083	1,322	1,928	1,413	8,011
Others (excluding private agencies) Govt.	77	8,837	11	90	88	8,927

Total No. of Allopathic Medical Practitioners registered : 26,107.

Total No. of Doctors in Govt. hospitals and dispensaries : 3,174 (*a*) Full time : 2,312, (*b*) Honorary : 549, (*c*) Medical Professors and Lecturers : 734.

Total No. of Nursing staff in Govt. hospitals and dispensaries : 9,379 ; Staff Nurses in Govt. hospitals : 4,048. (*a*) Nurse Midwives : 149 ; (*b*) Auxiliary Nurses/Midwives : 4,201 ; (*c*) Public Health Nurses : 110 ; (*d*) Paediatric Nurses : 40 ; (*e*) Psychiatric Nurses : 46 ; (*f*) Ward sisters attached to hospitals : 595 ; (*g*) Matrons attached to hospitals : 160.

Total No. of **Medical Colleges** including Municipal and Private : 12. Seats allotted : 1,482 ; **Dental Colleges :** 3 ; Seats allotted : 210 ; **Mental Hospitals:** 4 ; Beds in Mental hospitals : 5,575.

T.B. Hospitals and Sanatoria : Government Hospitals : 8 ; Private Hospitals : 21 ; T.B. Clinics : 43 ; Total No. of T.B. Beds : 8,380.

No. of Primary Health Centres under Public Health Department : 388 ; No. of beds in Primary Health Centres: 2,494.

Source : Office of the Director of Health Services, Maharashtra State, Bombay.

Non-Allopathic Medical Colleges, Hospitals and Dispensaries:

Ayurvedic : No. of Government Colleges : 3 ; Private Colleges : 12 ; Total No. of seats provided : 515 ; No. of Government Hospitals : 3 ; Government aided : 12 ; Research Ward (Government) : 1 ; Total No. of beds : 1,383 ; Zilla Parishad Dispensaries : 405 ; Zilla Parishad aided : 281 ; No. of licentiate Doctors : 23,029.

Homoeopathy : No. of Homoeopathic Colleges : 7 ; No. of seats provided : 50 each ; No. of Homoeopathic Hospitals : 1 ; Total number of beds : 30.

FAMILY PLANNING

No. of Urban Family Planning Centres		211
No. of Rural Family Planning Centres		521
Sterilisation operations performed during 1972-73	Vasectomy	496,278
	Tubectomy	113,113
Total		609,391
IUCD insertions done during 1972-73		9,419
Condoms distributed during 1972-73		1,827,827 dozens

Nationalised Road Transport: A single Road Transport Corporation for the entire State, known as the Maharashtra State Road Transport Corporation, came into existence on July 1, 1961. This is the biggest road transport organisation in India.

COMMUNICATIONS

Length of Motorable Roads

Road length as on 31st March, 1972 (in kms.)	
National highways	2,369
State highways	15,077
Major district roads	22,230
Other district roads	18,996
Village roads	48,685
TOTAL	107,357

The position as on 31st December, 1973, was as follows :

No. of routes : 5,484 ; Route distance : 364,889 kms. ; Average No. of vehicles on road per day : 4,673 ; Average daily earnings : Rs. 2,021,338 ; Average No. of passengers who travelled per day : 1,611,572.

Railways : Total (1973) length : 5,226 kms.

Number of vehicles

Class of Vehicles	As on 1st January	
	1973	1974
Motor Cycles	111,274	129,704
Motor Cars	145,248	152,751
Taxi Cabs	19,068	20,853
Auto-Rickshaws	4,684	5,957
Stage Carriages		
(*i*) Diesel engined	8,095	9,760
(*ii*) Petrol engined	61	43
Lorries :		
A. Private Carriers—		
(*i*) Diesel engined	14,795	15,056
(*ii*) Petrol engined	4,767	5,096
B. Public Carriers—		
(*i*) Diesel engined	38,241	38,687
(*ii*) Petrol engined	8,137	9,366
Ambulances	490	524
School Buses	580	592
Private Service Vehicles	1,157	1,234
Trailors	8,074	4,541
Tractors	9,165	10,466
Others	1,016	820
TOTAL	374,854	410,450

B.E.S.T. Bus Section (1973-74) Total staff in the undertaking : 23,423 ; No. of vehicles (including luxury buses) : 1,478 ; Route kilometres : 1,672·2 ; No. of passengers carried per day : 2·95 million ; Total income for the year : 199·068 million ; Total expenditure for the year (excluding passenger tax) Rs. 224·788 million.

Electric Supply Section: No. of units purchased: 1,143·1 million; No. of units sold: 1,047·8 million; No. of consumers: 462,112; Income: Rs. 193·001 million; Expenditure: Rs. 190·051 million.

PRESS

Names	Place of printing	Average net circulation for Jan.-June 1974
Dailies (English)		
Economic Times	Bombay	34,613†
Evening News of India	Bombay	26,553
Financial Express	Bombay	10,992†
Free Press Bulletin	Bombay	22,488
Free Press Journal	Bombay	68,771†
Hitawada	Nagpur	N.A.
Indian Express	Bombay & Ahmedabad	108,127@
Nagpur Times	Nagpur	20,090
Times of India	Bombay & Ahmedabad	205,007@
(Hindi)		
Navbharat	Nagpur & Raipur	N.A.
Nav Bharat Times	Bombay	63,845
(Gujarati)		
Bombay Samachar	Bombay	112,814
Janmabhoomi	Bombay	44,285
Janshakti	Bombay	30,107
Marathi		
Kesari	Pune	41,314
Loksatta	Bombay	136,632
Maharashtra Times	Bombay	112,606
Maratha	Bombay	N.A.
Navakal	Bombay	36,675
Navshakti	Bombay	47,955
Sakal	Pune & Bombay	92,773
Sanchar	Sholapur	13,129
Tarun Bharat	Nagpur	45,562
Tarun Bharat	Pune	34,354
Sindhi		
Hindustan	Bombay	14,438†
Urdu		
Inquilab	Bombay	N.A.

† Figures relate to July-Dec. 1973. @ Combined figures for Bombay & Ahmedabad.

GENERAL

Housing: No. of tenements constructed by the Maharashtra Housing Board from April 1947 to March 31, 1974 is given below.

Old Industrial Housing Scheme 2,608; Old Low Income Group Housing Scheme 2,075; Burmah-Shell Oil Refinery 500; Military Hutments 1,575; Rehabilitation 19,715; Subsidised Industrial Housing Scheme 29,666; Low Income Group 10,630; Economically Weaker Section 1,976; Slum Clearance Scheme 17,730; Middle Income Group 2,730; Dishoused Persons Scheme 200; Deposit Contribution Scheme 2,906; Transferred from Marathwada: 1,031.

Slum Clearance: The State Government has a slum improvement scheme costing Rs. 61 million and covering 80 per cent of the slums located in Bombay, Pune, Sholapur, Nagpur and Aurangabad.

The scheme envisaged to cover 369 slums, 225,000 huts and 1·25 million population in the five cities. In Bombay 206 slums, 132,000 huts and 800,000 population; in Pune 49 slums, 29,000 huts and 137,000 population; in Sholapur 48 slums, 16,735 huts and 90,000 population; in Nagpur 48 slums, 42,612 huts and 213,000 population; and in Aurangabad 18 slums, 2,250 huts and 10,000 population would be covered under this scheme.

State Income: According to 1960-61 prices the State income for 1972-73, was estimated at Rs. 21,240 million and the **Per Capita income** at Rs. 416·20.

Village Panchayat: (31-3-74): No. of Panchayat Samitis: 296; No. of villages covered (including 57 non-municipal urban areas): 38,716; Population covered (1971 Census) 35,180,000. There were 23,013 village panchayats in the State in 1972-73.

Zilla Parishads: Total No. of Zilla Parishads: 25.

Municipal Corporations and Councils: There are five Corporations *viz.* Greater Bombay, Pune, Nagpur, Kolhapur and Sholapur and 222 Municipal Councils as at the end of March 1974.

Consumer Price Index Nos. (Division-wise for 1973) are: Bombay: 224; Jalgaon: 258; Pune: 227; Sholapur: 264; Aurangabad: 275; Nanded: 287; Nagpur: 238. (Based on Calendar year 1960 as 100).

Rivers: The Godavari, the Tapti, the Panjhra, the Girna, the Purna, the Wardha, the Wainganga, the Indravati, the Pranhita, the Penganga, the Pravara, the Manjra, the Bhima, the Sina, the Varna, the Ghatprabha, the Mula, the Dudna, the Ghod, the Kadam, the Nira, the Tirna and the Krishna.

Retail Price Index for Urban Maharashtra: BASE: week ending 9th November, 1962 = 100.

Average for the month	Food	Fuel Lighting	Clothing	Misc.	Gen.
Dec. 1972	221·45	181·50	150·70	153·18	202·27
Dec. 1974 (P)	283·95	222·67	192·14	171·76	254·77

(P) Provisional. *Source:* Maharashtra Economic Review 1973-74.

Minerals: The State has rich reserves of manganese ore, iron ore, coal, bauxite and limestone. Besides there are appreciable reserves of minerals such as dolomite, ilmenite, kyanite, sillimanite, clays, silica sand etc. There also exist deposits of copper, lead, zinc, tungsten, barytes, feldspar, quartz, soapstone, mica, asbestos, graphite, corundum, beryl etc. The mineral reserves are confined mainly to the districts of Yeotmal, Nagpur, Bhandara, Kolaba, Kolhapur, Ratnagiri and Thana. A good quantity of salt is also produced in the State.

Mineral Production (1973†): The production ('000 tonnes) and value ('000 Rs.) respectively for each mineral are as follows: Chromite: 0·1; 21; Coal 2,550; 93,530; Iron ore: [illegible]; 10,638; Limestone: 416; 4,495; Manganese ore: 184; 12,967; Kaolin (China clay), 1·5; 19; Steatite: 2; 11; Ochre: 0·8; 4; Bauxite 268; 3,315; Silica sand 32; 437; Salt 541; 21,086; Kyanite 13; 1,976; Dolomite: 5; 67; Other sands: 97; 97. († Figures are provisional).

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† Figures are provisional.

Estimated reserves of important minerals in the State are :

Coal about 5,000 million tonnes, **Iron ore** about 260 million tonnes, **Manganese ore** about 55 million tonnes, **Bauxite** about 68 million tonnes, **Limestone** about 4,000 million tonnes and Silica sand about 48 million tonnes.

Nandan Coal-mine Project: This project, situated at the western-end of the Damua group of mines in Pench Valley was inaugurated on July 2, 1974. It envisages an outlay of Rs. 70·5 million and is expected to provide employment to 18,000 people and produce 80,000 tonnes of coal per year.

MANIPUR STATE

CAPITAL: Imphal. **Area:** 17·48 sq. kms.; **Population** 100,366.

Area of the State: 22,356 sq. kms.; **Population of the State:** 1,072,753; **Density:** 48 per sq. km.; **Sex Ratio:** 980 females per 1,000 males; **Literacy:** 22·90 per cent.

Districts: Manipur has been reorganised into six districts, viz. Manipur Central (Area : 2,230 sq. kms.; Population : 724,537); Manipur East (Area : 4,409 sq. kms.; Population : 62,229); Manipur North (Area : 3,417 sq. kms.; Population : 104,175); Manipur West (Area : 4,344 sq. kms.; Population : 44,975); Manipur South (Area : 4,581 sq. kms.; Population : 98,114); and Tengnoupal (Area : 3,375 sq. kms.; Population 33,723).

Major City: Imphal.

State Boundaries: Manipur is bound in the north by Nagaland, in the south by Mizoram, in the east by Upper Burma and in the west by Cachar district of Assam.

State Languages: Manipuri and English are official languages of the State, though a number of different dialects are spoken. Hindi is becoming gradually prevalent.

AGRICULTURE: The principal crops of Manipur are paddy and maize. There has been a remarkable development in the field of agriculture after the end of the Fourth Plan and a considerable hectareage of land has been brought under Japanese method of cultivation, double-cropping, etc., by introducing improved seeds and green manuring. 150 minor irrigation schemes are being taken up in the valley areas to increase food production. Gross irrigated area covers about 39,000 hectares. The production of foodgrains increased from 225,000 tonnes in 1970-71 to 248,720 in 1971-72.

Forests: Manipur forests are rich in bamboo, cane, teak, jurjan, pine and varieties of timber. Out of a total area of 22,356 sq. kms. forests occupy an area of about 14,365 sq. kms. Bamboo and canes are available in abundance in the South-western hill ranges, especially in the Jiri and Barak river drainage area, and it is estimated that about 2,585 sq. kms. are at present under bamboo and cane, yielding on an average 300,000 tonnes annually.

Fisheries: More than 75 per cent of the population consume fish. The total annual consumption is estimated to be 13,935 quintals, while the total yield is about 9,400 quintals. There are 303 fishing units registered with the Fishery Department, Manipur.

Major Power Projects: The Loktak project started in 1970 is the biggest centrally sponsored project in Manipur. The construction of Loktak Hydel Tunnel was inaugurated on Oct. 25, 1971, which provides for commissioning the first 70 mw. unit by March 1975. So far 214 villages have been electrified.

INDUSTRIES: Handloom is the biggest industry in Manipur. There are more than 200,000 registered looms in the State and 241 weavers' co-operative societies.

One handicraft design centre, one doll and toys production centre, and two bamboo and cane training centres have been established.

Khadi and Village Industries: There are 32 hand pounding co-operative societies including one at the apex level, 7 pottery co-operative societies, 3 gur and khandsari co-operative societies, 6 khadi institutions and co-operatives, 7 bee-keeping co-operative societies, 3 hide flaying and leather co-operative societies, 4 non-edible oil and soap making co-operative societies, 44 edible oil crushing co-operative societies including one at the apex level and one match making co-operative society.

Small Industries: The small industries in the States are carpentry, blacksmithy, embroidery, brick making, tailoring and goldsmithy.

An Industrial Advisory Board to accelerate the development of small-scale industries has been set up and the jurisdiction of Assam Financial Corporation has been extended to Manipur, in order to enable private entrepreneurs to establish small industries in the private sector. The administration is considering the establishment of a small paper mill.

The Government of Manipur has taken up in hand the establishment of an industrial estate at Takyelpat, 5 kms. from Imphal with a view to creating basic overheads and conditions for the growth of industries.

Most of the industries are concentrated in the central district of Manipur.

Sericulture: For revitalising the old sericulture industry demonstration centres, silk farms and muga silk production centres were opened. Grants and loans are given for the development of sericulture.

Labour: The followings are the number of workers engaged in different fields, the first being males and the second females respectively :

Total No. of Workers: 245,435 ; 125,428 ; Cultivators : 167,038 ; 125,428 ; Agricultural Labourers 8,662 ; 4,863 ; Other Workers : 69,735; 39,123.

EDUCATION (1973-74)

Institutions	No.
Primary/Jr. B. Schools	455
Middle Schools/Jr. High Schools	1,199
High Schools	130
Higher Secondary Schools	20
No. of Colleges	16
Govt. Polytechnic	1
Sainik School	1

PUBLIC HEALTH (1972-73): A medical college has been established in 1972. Besides this, there are 25 hospitals including Primary Health Centres and 105 dispensaries including Primary Health Sub-centres.

COMMUNICATIONS : Manipur has no railway line and the only surface communication connecting Manipur with the rest of India is the Imphal-Dimapur road, the length of which is 215 kms. A national highway also passes through the State. A second road is now being improved for regular vehicular traffic which will link Cachar district of Assam with Manipur. There are five principal private operators of motor transport in the co-operative sector, besides the Manipur State Transport Organisation.

Two land routes from Burma pass through the State. There are air services at regular intervals between Imphal-Silchar, Imphal-Calcutta and Imphal-Gauhati.

GENERAL : With the passing of the North-Eastern Areas (Re-organisation) Bill on 21-12-71, Manipur became a full-fledged State which was till then a Union territory. The State was formally inaugurated by the Prime Minister Mrs. Indira Gandhi on 21-1-72.

Climate: Varied temperatures. The valleys are hot and the hills are cold. Average rainfall is 162·5 cms.

Important rivers : The Iril, the Thoubal, the Imphal, the Barak, the Nambul, the Leimakhong and the Khuga.

Lakes : The Loktak lake is the biggest with an area of 207 sq. kms. The other important lakes are Waithou, Ushoipokpi, Ikop, Laidokan and Pumlen.

Minerals : Geological mapping and mineral investigation conducted by the Geological Survey of India indicated availability of high quality of limestone at different places in the State in sufficient quantities to start a small cement plant.

Tribes : Main population consists of the Meiteis inhabiting the valley with some 29 tribes and sub-tribes known by the generic name of Kukis and Nagas.

MEGHALAYA STATE

CAPITAL : Shillong.* **Area :** 12·36 sq. kms.; **Population :** 122,752.

Area of the State : 22,500 sq. kms.; **Population of the State:** 1,011,699. **Density:** 44·96 per sq. km.; **Sex Ratio:** 954 females per 1,000 males. **Literacy :** 29·48 per cent.

Districts	Head-quarters	Area sq. kms.	Population
Khasi Hills	Shillong	10,500	491,209
Jaintia Hills	Jowai	3,900	113,875
Garo Hills	Tura	8,078·21	406,615

Major Cities with their Population : Tura : 15,489; Jowai : 8,929.

State Boundaries : Bound by Bangladesh in the south and west, Goalpara, Kamrup districts of Assam in the north and United Mikir and North Cachar Hill districts of Assam in the east.

State Language : English is being used for all official purposes at the State Level. The State has not enacted any legislation on official language. The principal languages spoken are Khasi, Jaintia and Garo.

AGRICULTURE : The principal crops of Meghalaya are potato, tezpatta, rice, maize, arecanut and fresh fruits in Khasi and Jaintia Hills and oil seeds, jute, cotton, mesta and tobacco in Garo Hills. Most of the foodgrains have to be imported into the State.

Irrigation and Power Projects : Lift irrigation gets priority under the minor irrigation schemes. The State had installed 100 pump sets and the rural electrification scheme electrified 94 villages up to March 31, 1971. For further details see chapter on "Irrigation and Power".

INDUSTRIES : In the organised sector, the main industrial unit in the State is the Cement Factory at Cherrapunji. There are 216 small industrial units in the State out of which 143 are in Khasi Hills, 13 in Jaintia Hills and 60 in Garo Hills.

The State Govt. has set up an Industrial Development Corporation to promote, establish, undertake and implement industrial programmes having prospect of development in the region and also help the industries in the private sector. It also looks after the small-scale industries. The State has decided to take the following steps in the industrialisation : (1) to give grant-in-aid and industrial loans to private sector; (2) establishment of industrial estates—one in each district; (3) starting multi-purpose service workshop at Jaintia Hills; (4) setting up of industrial township at Burnihat in order to provide facilities of power, transport and machineries to intending industrialists in the State and (5) to survey the possibility of starting a paper mill in the Garo Hills and a newsprint mill in Khasi Hills.

Cottage Industries : The cottage industries in the State are of traditional nature. These are bee-keeping, carpentry, black-smithy, sericulture and weaving, etc.

The State Government conducts training centres at Shillong, Jowai and Tura and finances the aluminae of the above centres, to start businesses of their own.

EDUCATION : Educational Institutions : No. of Colleges : 14; Technical School : 1; High Schools : 124; Middle English Schools : 309; Senior Basic Training Schools : 4; Lower Primary Schools : 2,382. No. of Pupils : 132,918 (Boys : 70,231, Girls : 62,687).

PUBLIC HEALTH : Private hospitals : 4; General hospitals : 7; Primary Health Centres : 9; Dispensaries : 58; Doctors : 122; Nurses : 300; Beds : 1,195; Amount spent on medicines during 1970-71 : Rs. 656,826.

GENERAL : The hill State of Meghalaya was created under the Assam Reorganisation (Meghalaya) Act, 1969 of Parliament passed on December 24, 1969. It was inaugurated by Prime Minister Mrs. Indira Gandhi on April 2, 1970 as an autonomous State and subsequently was made a full-fledged State on January 21, 1972.

The population of Meghalaya predominantly consists of the Khasi, Jaintia and Garo tribals.

Cherrapunji, one of the urban centres of the State, claims to have the world's highest rainfall of 18,870 mms.

Rivers : The Bogapani, the Jadukata, the Kupli, the Digru, the Jinjiram and the Simsang.

Minerals : Meghalaya is rich in mineral resources. The mineral wealth of Khasi and Jaintia Hills districts include coal, sillimanite, limestone, unworked lithomarge, white clay and corundum. This area produces one-fifth of the State's output of coal and 95 per cent of India's total output of sillimanite.

The Garo Hills district is a potential mineralised area of the State. There are deposits of coal, limestone, fireclay and light coloured sandstone, which are virtually untapped. Plans have been made to exploit them but transport difficulties have so far been unsurmountable.

MIZORAM

(Union Territory)

CAPITAL : Aizawl. **Area of the Territory :** 21,090 sq. kms. ; **Population :** 332,390 ; **Density :** per sq. km. 15.76 ; **Sex Ratio :** 1,018 males per 1,000 females ; **Literacy :** 53·70 per cent. (Male : 59·47 per cent, female : 42·50 per cent.)

Districts : (Name, area in sq. kms. and population respectively) : Aizawl : 12,428 ; 229,112 ; Lunglei : 6,066 ; 62,136 ; Chhimtuipui : 2,596 ; 41,142.

Towns : Aizawl ; Lunglei.

Boundaries : The Territory is bound by Cachar district of Assam in the north, Manipur in the north-east, Burma in the east, Bangladesh in the south and west and Tripura in the north-west.

AGRICULTURE

Total geographical area : 2,106,788 hectares ; Area not available for agricultural use : 747,901 hectares ; Net area sown : 60,821 hectares ; Total cropped area : 64,500 hectares ; Area sown more than once : 2,940 hectares.

Paddy is the principal crop of the Territory. Other crops grown are maize, cotton, groundnut, potato, ginger, orange, til, papaya, lime and tea. Cash crops like coffee, rubber, cardamom and cashew nuts have recently been introduced as part of soil conservation scheme. Ginger and til cultivation has shown good results.

Productions : 1972-73 : Rice : 68,887 tonnes ; Other products : 26,141 tonnes.

Land Tenure : There is no individual land-holding in Mizoram and so far no tenure has been established. The land belongs to the village as a whole and the people practice shifting cultivation.

However, land is allotted by issue of panes for establishing gardens and terraces for permanent cultivation.

Forests : Reserved forests : 5,716·13 sq. kms. ; Protected forests : 1,025·54 sq. kms. ; Roadside reserved forests : 937·6 sq. kms.

Animal Husbandry : Livestock : 53,574 ; Poultry : 602,900 ; Veterinary Dispensaries : 7 ; Rural animal husbandry centres : 17.

INDUSTRIES

There is no major industry in the Territory. A few people are occupied in traditional cottage industries. The Mizos are good weavers. They produce lovely woollen carpets, but the production is very slow and not economic. They produce cane hats and baskets. No. of cottage industry centres : 93 ; Weaving centres : 7.

Workers : (1971) : Total No. of workers : 151,619 ; Cultivators : 126,652 ; Agricultural labourers : 558 ; Workers in mining, quarrying, livestock, forestry, fishing, hunting, plantation, orchard and allied activities : 411 ; Manufacturing, processing & household industry : 272 ; Construction : 1,903 ; Trade and commerce : 1,631 ; Transport and communications : 832 ; Other services : 18,862 ; Non-workers : 180,771.

Community Development : There are 20 C.D. Blocks in the Territory, covering 21,090 sq. kms.

Co-operation (1974) : There are 193 co-operative societies in the Territory out of which 155 are in Aizawl district.

Govt. Employees : There are 10,534 Govt. employees in the Territory as on Nov. 1, 1973, 114 in Class I, 274 in Class II, 6,154 in Class III and the rest in Class IV categories.

EDUCATION

Almost every village has a Government or a private school offering education from standards I to III in vernacular and English. There are 483 primary schools, 80 Pre-primary schools, 2 training schools, 226 middle schools, 105 high schools, one higher secondary school and 4 colleges.

PUBLIC HEALTH

No. of hospitals : 3 ; Dispensaries : 33 ; No. of Doctors : 31 ; Nurses : 61 ; Auxiliary Nurses/Midwives : 113 ; Pharmacist : 104 ; Matrons : 2 ; Beds in hospitals/Medical units : 322 ; T.B. hospital : 1.

COMMUNICATIONS

Communications have been a great problem in the Territory. Motorable roads exist between Aizawl, Silchar, Lunglei, Demagiri, Champhai and Saiha.

Length of roads : 1,157·315 kms. ; Black topped 801·10 kms.

No. of vehicles (registered) as on April 1, 1974 : 1,731.

Post Offices : (*a*) With telegraphic facilities : 2 ; (*b*) without telegraph facilities : 128.

GENERAL

On December 21, 1971, the Lok Sabha passed the Constitution (Twenty-seventh Amendment) Bill providing for a legislature and council of ministers for the Union Territory of Mizoram (former Mizo Hills district of Assam). The Bill provides special safeguards for the minority tribal groups. Mizoram was inaugurated by the Prime Minister Mrs. Indira Gandhi on January 21, 1972.

Rivers : Tlawng (Dhaleshwari), Tuiruang, Tuirial, Kaladan, Karnafuli, Tuvai and Tiau.

Lakes : Palak, Tamdil and Rengdil.

The People: The word **Mizo** means highlander, **Mi** means person and **Zo** means Hills. The Mizos include a variety of tribes — the Lushais, Pawis, Paithes, Raltes, Phangis, Hmars, Kukis, Maras and Riangs and their home is in the Mizo Hills and some regions of Manipur, Tripura, Burma and East Bengal. Other Tribes in the region are the Chakmas and Tipras.

Among the Lushais the percentage of literacy is 86. The British missionaries introduced Christianity and scripted the Mizo language in Roman alphabet.

Press : 25 newspapers out of which 11 dailies, 5 weeklies, one fortnightly and 7 monthlies, are brought out regularly. Of these 18 are published from Aizawl, 4 from Lunglei and the balance from Chhintuipui.

NAGALAND STATE

CAPITAL: Kohima. **Area:** 7,209 sq. kms.; **Population:** 175,204.

Area of the State: 16,527 sq. kms.; **Population of the State:** 516,449; **Density:** 31 per sq. km.; **Sex Ratio:** 871 females per 1,000 males; **Literacy:** 27·40 per cent.

Districts	Hqs.	Area in sq. kms.	Population
Kohima	Kohima	7,209	175,204
Mokokchung	Mokokchung	3,852	168,242
Tuensang	Tuensang	5,466	173,003

No. of Villages: 814.

State Boundaries: The State is bound by Assam in the west, Arunachal Pradesh in the north, Burma in the east and Manipur in the south.

State Languages: In 1967 Nagaland Legislative Assembly passed a resolution adopting English as the official language of the State for administration and education. However, as the different tribes have different dialects, the common language used amongst them is Nagamese and English.

AGRICULTURE

Main crop, production and area sown are given under the chapter on "Agriculture".

The major crop is rice which accounts for 80 per cent of the total output of foodgrain. There is also cultivation of cotton, jute, mesta, sugar-cane, tobacco, potato and sweet potato.

Average food production is 79,890 tonnes in a year.

Forests: Area: 287,556 hectares; Reserved forests: 28,559 hectares; Protected forests: 51,799 hectares; Forests under Naga Hills Jhumland Act (1970): 207,198 hectares. Revenue from forests (1973-74): Rs. 22.03 million.

Fisheries: Average annual catch from inland fisheries is 50 tonnes.

INDUSTRIES

There are 1,369 small and cottage industries at present.

Forest-Based Industries: Under the forest department a seasoning and treating plant has been set up at Dimapur at a cost of Rs. one million. It is expected to add a few saw mills and a joinery mill (for the manufacture of doors windows, floor and ceiling boards, wall frames etc.) and a waste board mill for the manufacture of hard-board from saw-dust.

Labour: Cultivators: 203,341; Agricultural labourers: 3,797; Livestock, Fishery, Forestry, Hunting, Orchards and allied Industries: 1,061. Mining and Quarrying: 76; House-hold Industry: 788; Other than House-hold Industry: 2,087; Construction: 3,277; Trade and Commerce: 4,725; Transport, Communication & Storage: 2,388; Other services: 38,474; Non-workers: 254,335; Total workers: 262,114.

EDUCATION

No. of Government Institutions: Lower Primary Schools 926; M. E. Schools 200; High Schools 62; Colleges 4; Training Institutes for Teachers 3; Polytechnical School 1; Adult Literacy Centres 15.

Private Institutions: M.E. Schools: 34; High Schools: 13; Colleges: Two.

PUBLIC HEALTH

General Hospitals: 28; T. B. Hospitals: 2; Primary Health Centres: 10; Sub-centres (under Primary Health Centres): 41; School Health Service: 3; Health Education Programme: 1; Blood Transfusion: 1; Malaria Eradication Programme: 1; Small-pox Eradication Programme: 1; B.C.G. Teams: 3; T.B. Clinics: 3; S.E.T. (Leprosy): 10; V.D. Clinics: 2; Beds in Hospitals: 1,058.

At present one medical unit covers an average of 176·12 sq. kms. and one hospital bed is available for every 515 persons.

COMMUNICATIONS

The railway covers only 8·04 kms. in the whole State and the main railway station is Dimapur, which is the gateway to Nagaland.

Roads: State highways 646 kms; Major District Roads: 712 kms; Other District Roads: 613 kms.; Village Roads: 1,607 kms.

GENERAL

Five Year Plan: Nagaland's Annual Plan for 1974-75 has been fixed at Rs. 140 million against Rs. 100 million in 1973-74. An allocation of Rs. 11.5 million has been made to meet the share capital for Nagaland' Pulp and Paper Mill which is nearing completion.

Rainfall: The rainfall in Kohima is 1,488.7 m.m.; in Tuensang 2,686.2 m.m. and in Mokokchung 730.59 m.m. respectively.

Tribes: The main tribes in the State are: Angami, Sema, Lotha, Ao, Rengma, Chakeesang, Sangtam, Konyak Chang, Phom, Yimchungar, Khemungan, Zeliang and Kuki.

ORISSA STATE

CAPITAL: Bhubaneswar. **Area:** 65·03 sq. kms.; **Population:** 105,491.

Area of the State: 155,842 sq. kms.; **Population of the State:** 21,944,615. **Density:** 141 per sq. km.; **Sex Ratio:** 988 females per 1,000 males. **Literacy:** 26·18 per cent.

Districts: 13 (56 sub-divisions, 26 municipalities).

Name (Hqrs. in brackets), area (sq. kms.) and population respectively.

Balasore (Balasore): 6,394 — 1,830,504; Baudh Khondmals (Phulbani): 11,070 — 621,675; Balangir (Balangir): 8,903 — 1,2[illegible]657; Cuttack (Cuttack): 11,211 — 3,827,678; Dhonkanal [illegible]henkanal): 10,826 — 293,914; Ganjam (Chatrapur): 12,527 — 2,293,808; Kalahandi (Bhawanipatna): 11,835 — 1,163,869; Keonjhar (Keonjhar): 8,240 — 955,514; Koraput (Koraput): 27,020 — 2,043,281; Mayurbhanj (Baripada): 10,412 — 1,434,200; Puri (Puri): 10,159 — 2,340,859; Sambalpur (Sambalpur): 17,570 — 1,844,898; Sundargarh (Sundargarh): 9,675 — 1,030,758

Major Cities : Name, population and area in sq. kms. respectively.

Cuttack : 205,759 — 73·32 ; Rourkela : 172,502 — 121·73 ; Berhampur : 117,662 — 29·27 ; Bhubaneswar : 105,491 — 65·03 ; Sambalpur : 105,085 — 76·69.

No. of Villages : 51,639 — Inhabited : 46,992 ; uninhabited : 4,647 (1971). **No. of Towns :** 81.

State Boundaries : It is surrounded by the Bay of Bengal in the east, Madhya Pradesh in the west, Andhra Pradesh in the south, Bihar in the north, and West Bengal in the north-east. It lies between the parallels of 17°48′ and 22°34′ north latitudes and meridians of 81°24′ and 87°29′ east longitude.

AGRICULTURE : About 73 per cent of the working population of the State depends on agriculture. The Plans have not brought about any change in the agricultural situation. Farmers still suffer from poverty and are unable to implement scientific methods and fragmentation continues making the holdings uneconomic. Inadequate irrigation facilities, the net irrigated area being only 18-89 per cent of the net area sown during 1971-72, is also a set back. Paddy is the predominant crop covering 66 per cent of the total cropped area during 1972-73. The cash crops are sugar-cane, potato, groundnut, rape and mustard, til, castor jute, mesta, turmeric and tobacco. The total area under cash crops during 1972-73 was 412,000 hectares.

Land Reforms : The Orissa Land Reforms (Amendment) Act, 1973 (Presidents' Act 17 of 1973) was enforced with effect from 2nd October, 1973. The Orissa Land Reforms (Amendment) Ordinance 1974 was promulgated with effect from 13th April, 1974 which received the assent of the President on 11th July, 1974.

The most remarkable and vital provisions of this Amendment Act is that the ceiling has been fixed at 4·047 hectares, 6·07 hectares, 12·14 hectares and 18·21 hectares of Class-I, Class-II, Class-III and Class-IV lands instead of 8·094 hectares, 12·14 hectares, 24·28 hectares and 32·37 hectares respectively in the Original Act for a family of 5 members with an addition of 0·809 hectares for each member in excess of 5, subject to 7·284 hectares. Thus the minimum land ceiling has been fixed at 7·284 hectares 10·92 hectares, 21·85 hectares and 32·77 hectares respectively. Provision has also been made to settle 70 per cent of surplus lands vested in Government with persons belonging to Scheduled Castes or Scheduled Tribes.

Fisheries : See chapter on " Fisheries ".

Irrigation and Power Projects: See chapter on Irrigation and Power Projects.

ELECTRICITY: During 1972–73 : Electricity generated : 1,921·844 Mkw. ; Electricity consumed: 1,663·546 Mkw ; Installed capacity : 563·376 M.W. ; Percentage consumed by industries : 87·70 ; Per capita consumption : 75·81 ; No. of villages electrified upto 1973–74 : 9,637.

INDUSTRIES : The following large units are now in operation :

(*a*) Kalinga Iron works, Barbil ; (*b*) Hira Cement works, Bargarh ; (*c*) Hira Cable Works, Hirakud ; (*d*) Hirakud Industrial Works, Hirakud ; (*e*) Re-Rolling Mill, Hirakud ; (*f*) Tile Factory, Choudwar ; (*g*) Ferro-chrome Plant, Jaipur Road ; (*h*) East Coast Salt and Chemical Industries Ltd., Sunabeda.

A number of medium and large industries have been planned under the Fifth Five Year Plan. These include a Ferro Vanadium Plant in collaboration with the Central Government, an Automobile Tyre and Tubes Plant, a Nylon Filament Yarn Plant, a Calcium Carbide Plant, a Sponge Iron Unit, a Caustic Soda and Chrome Plant, a Dichromate Plant, a Carbonisation Plant, a Formed Coke and Pig Iron Plant and Soda Ash and Ammonium Chloride Plant, all proposed in the joint sector. It is also proposed to establish a Jute Mill in Dhanmandal in the district of Cuttack in near future.

Private entrepreneurs also are promoting a Paper Plant, Aluminium Ingot Plant and a Brewary Unit. A new corporation in the name of Industrial Promotion and Investment Corporation of Orissa Ltd. has been set up to promote and finance large and medium industries in the State. The Government of India are also actively considering setting up a Fertiliser Plant, a Nickel Project and a Sand Separation Plant to produce minerals from the rich sand of the Gopalpur Coast of the State.

The other industries are Textiles, Cement, Refrigerators, Paper, Glass, Sugar, Iron and Steel, Potteries, Spinning Mills, Tube Mill, Refractories, Chlorine and Caustic Soda, Heavy Structural and Transmission Towers, Aluminium Ingots, Aluminium Cables, Prestressed Concrete, Cast Iron Products including Spun-pipes, Heavy equipments, Ferro-silicon, Ferro-manganese and Fertiliser.

Industrial Development Agencies (See chapter on State Corporations).

LABOUR : (As on 30-9-73).

No. of Employment Exchanges — 16 ; No. of Registrations 189,272 ; No. of vacancies notified 26,935 ; No. of submissions made 213,423 ; No. of placements affected 10,395 ; No. of applications on live register 316,226.

No. of Unions on register (1971) — 253 ; Membership of Unions (submitting returns) — 75,697 ; No. of Unions submitting returns — 124.

No. of industrial disputes (1972) — 26 ; No. of workers involved — 6,577 ; No. of man-days lost — 160,438.

No. of working factories in the State (1972) — 922 ; No. of workers employed — 70,977 ; No. of multipurpose Labour Welfare Centres — 23.

Panchayat Raj : 1973 — No. of Panchayat Samities : 314 ; No. of Gram Panchayats : 3,827.

EDUCATION

No. of institutions : Universities — 4 ; Arts, Science & Commerce Colleges — 84 ; Teachers Training Colleges — 48 ; High, Higher Secondary & Post-Basic Schools — 1,743 ; Middle & Senior Basic Schools — 4,760 ; Primary & Junior Basic — 30,784 ; Teacher's Training Schools (E.T. and Handicrafts) : 16 ; Schools for Handicapped — 2.

Medical Education : Medical Colleges : 3 ; admission capacity : 400 ; Nursing Training Centres : 9 ; admission capacity : 100 ; Pharmacist Training Centres : 1 ; admission capacity : 64.

Universities (1971-72) :

1. *Berhampur University, Berhampur.* (established under Orissa Act 21 of 1966) — has 16 affiliated colleges, 7 University departments with an enrolment of 6,678 and 231 respectively.

2. *Utkal University, Bhubaneswar* — has 43 affiliated colleges and 20 teaching departments (including a law college at Cuttack and an evening college at Bhubaneswar).

3. *Sambalpur University, Sambalpur* — has 28 affiliated colleges.

4. *Orissa University of Agriculture and Technology, Bhubaneswar* has 4 constituent colleges.

(For further details about universities see chapter on Education).

PUBLIC HEALTH (1972-73) :

No. of Hospitals — State : 171 ; Others : 43 ; Total : 214 ; No. of Dispensaries — State : 264 ; Others : 67 ; Total : 331 ; No. of Special Hospital — T.B. — 3 ; Leprosy — 2 ; Mental — 1 ; Infectious diseases — 1 ; No. of Clinics — T.B. — 13 ; V.D. — 13 ; Dental — 8 ; No. of Blood Banks : 14 ; No. of Beds — Government : 8,760 ; others : 2,105 ; Total : 10,865 ; No. of Medical Personnel — Doctors : 4,778 ; Nurses : 1,646 ; Mid-wives : 1,177 ; Dais : 528.

Some Important Ratios : Urban-Doctor Population ratio : 1 : 1,500 ; Rural-Doctor Population ratio : 1 : 13,000 ; Total Doctor–Population ratio : 1 : 9,200.

Nurse — Population ratio : 1 : 26,892 ; Nurse — Bed ratio : 1 : 8.

Indigenous System of Medicine : Ayurvedic and Unani — Hospitals : 3 ; Dispensaries : 183 ; Total : 186 ; Beds : 118 ; Ayurvedic College : 1 ; admission capacity : 30.

Homoeopathic — Hospital : 1 ; Dispensaries : 108 ; Total : 109 ; Beds : 24 ; Doctors : 110 ; Homeopathic College : 1 ; admission capacity : 25.

COMMUNICATIONS : (As on 1-4-1972) — National Highways : 1,704 kms ; State Highways : 2,197 kms ; Major District Roads : 5,235 kms ; Other roads included total : 50,459 kms.

Ports : *Major Port :*—Paradeep (Cuttack District); biggest in the country, it can receive bulk-carriers of 60,000 tonnes.

Minor Ports :—Chandbali (Balasore District) and Gopalpur (Ganjam District).

See chapter on "Ports" for details.

Railways : Orissa has 1,732·95 kms. of broad gauge and 143 kms. of narrow gauge railway line.

Press (Leading dailies with circulation figures).

English :—Amrit Bazar Patrika, Cuttack, Circulation, included in the Calcutta edition. *Oriya :* Samaj, Cuttack, 42,266 ; Prajatantra, Cuttack, 12,280 ; Matrubhumi, Cuttack, 12,212 ; Swarajya, Cuttack 10,276.

GENERAL

Important Rivers : The Suvarnarekha, the Vaitarni, the Brahmini, the Mahanadi, the Indravati, the Sabri, the Sileru, the Rushikulya and the Budhabalanga.

Important Lakes : Chilka and Ansupa.

Minerals : Orissa's mineral potential is enormous. Her reserves of Iron Ore, Manganese Ore, Chromite, Limestone and Graphite are among the very best in India. The minerals which are worked in large quantities include besides those stated above, Coal, Dolomite Galena, Fire Clay and China Clay. Deposits of Bauxite, Vanadiferous Magnetite, Kyanite, Asbestos, Soapstone and Mica also occur in the State.

PONDICHERRY

(Union Territory)

CAPITAL : Pondicherry. **Area* :** 3·88 sq. kms. ; **Population :** 90,367.

Area of the Territory : 479·2 sq. kms. ; **Population of the Territory :** 471,347 ; **Density :** 982 per sq. km. ; **Sex Ratio :** 990 females to 1,000 males. **Literacy :** 43·44 per cent.

District	Area in '000 sq. kms.	Population
Pondicherry	0·3	339,931
Karaikal	0·2	100,003
Mahe	0·01	23,122
Yanam	0·02	8,291

Pondicherry (with Karaikal, Mahe and Yanam) is divided into 16 communes, situated in different parts of the country. The Capital, Pondicherry, is in South Arcot dist. of Tamil Nadu ; Karaikal in Tanjore dist. ; Yanam in East Godavari dist. of Andhra Pradesh and Mahe in the Cannanore dist. of Kerala.

No. of Villages : 388.

State Languages : French, English, Tamil, Malayalam and Telugu.

ELECTRICITY

The entire requirement of power for Pondicherry and Karaikal regions is obtained from the Tamil Nadu Electricity Board and for Mahe region from the Kerala State Electricity Board. The Andhra State Electricity Board is in direct charge of catering power to consumers in Yanam region.

Electricity purchased during 1973-74 was 108.34 million units.

Region-wise per capita consumption of power : Pondicherry : 241.6 ; Karaikal : 70.17 ; Mahe : 160.92 ; Overall : 200.56 units.

AGRICULTURE

The production of foodgrains in 1973-74 was 120,000 tonnes.

Main crops, their production and area sown respectively are tabulated below :

Main Crop Type		Area sown (estimated) in hectares	Production (tonnes)
1.	*Food crops :*		
	(*a*) Paddy	36,000	106,000
	(*b*) Millets	4,000	10,500
	(*c*) Pulses	6,000	3,500
2.	*Oil seeds*		
	Groundnut ..	3,200	10,800
3.	*Sugar*		
	Sugarcane ..	1,800	200,000
4.	*Horticultural Crops.*	3,012	—

Irrigation : Lift Irrigation Scheme has been introduced in Karaikal which is a delta of the Cauvery at a cost of Rs. 383,000 to turn 136·37 hectares of dry land into wet.

SMALL SCALE

Units Registered With the Directorate as on March 31, 1974: Cement-based Industries : 19 ; Chemical Industries : 100 ; Electrical Engineering Industries : 11 ; Electronics Industry : 1 ; Food-based Industries : 20 ; Glass silvering :

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* Urban area of Pondicherry.

3; Leather based Industries: 9; Mechanical Engineering Industries: 167; Paper-based Industries: 13; Plastics-based Industries: 6; Rubber-based Industries: 1; Wood-based Industries: 39; Other Miscellaneous Industries: 166; Total: 555.

Industrial Estates (Government Estates): Industrial Estate, Thattanchavady, Pondicherry 605009. Rural Industrial Estate, Manapet, Pondicherry 605001. Rural Industrial Estate, Kottucherry, Karaikal 609602.

Industrial Development Agencies:

(1) The Raw Materials Depot of National Small Industries, Thattanchavady, Pondicherry 605009.

(2) The Tamil Nadu Industrial Investment Corporation, Madras 600002.

LABOUR (As on March 31, 1974)

No. of registered unions: 52; No. of workers: 17,500; No. unemployed: 19,405; No. employed in factories and workshops: 38,130; No. of strikes in 1973: 5.

MAJOR INDUSTRIES

Type of Industry	Name of Unit	No. Employed	Production
Textiles	Anglo French Textiles, Pondicherry	5,700	Cloth 44,605,824 metres Yarn 9,646,727 kgs.
	Swadeshi Cotton Mills, Pondicherry	2,234	Cloth 2,749,908 metres Yarn 256,073 kgs.
	Sri Bharathy Mills, Pondicherry	910	Cloth 3,675,555 metres Yarn 736,510 kgs.
	Soundararaja Mills, Nedungadu, Karaikal	169	Yarn 690,983 kgs.
	Cannanore Spinning and Weaving Mills, Mahe	582	Yarn 1,081,493
Chemical	Pondicherry Distilleries Ltd. Pondicherry	89	Manufactures rectified spirit, denatured spirit arrack patte, and Indian made foreign liquors.
Food products	New Horizon Sugar Mills, Ariyur, Pondicherry	775 During Season 427 Off Season	18,332 tonnes of Sugar

EDUCATION

Schools (as on August 1, 1974)

	No. of Schools	No. of Pupils	Teachers
Pre Primary ..	56	2,602	68
Primary	292	32,446	1,251
Middle Schools ..	85	32,554	785
Secondary Schools	62	36,403	1,371

Colleges

	No. of Colleges	Students	Teachers
Gen. Education	9	4,514	502
Medical ..	1	553	108
Law	1	201	7

Professional Institutions

Name	No. of Institutions	Students	Teachers
Polytechnic	1	226	53
Teachers' Training Centres	2	146	16
Junior Tech. School ..	1	170	19
Nursing	1	83	5
School for Embroidery, Needle Work, Dress Making	1	194	3
Pre-vocational Training Centres	4	377	26
School for the Blind ..	1	10	3
School for Deaf and Dumb	1	25	2

Universities: Nil.

Amount spent on Education (1973-74): Rs. 21·901 million.

PUBLIC HEALTH

No. of Hospitals 10 (Govt. 8; Private 2); General Hospitals: 4; Maternity Hospitals: 2; T.B. Sanatorium: 1; Leprosy Hospital: 1; Private Maternity Hospital: 1; Private Nursing Home: 1; Dispensaries: 22; ESI Dispensaries: 6; Primary Health Centres: 11; Chest Clinic: 1; T.B. Sub-centres: 2; Filaria Control Units: 2; Leprosy Control Units with Leprosorium: 1; Sub-centres: 31; No. of beds: 1,355; No. of Doctors: 154; No. of Nurses: 284; Bed Population ratio: 1: 357; Doctor Population ratio: 1: 2,431.

COMMUNICATIONS

No. of Vehicles: 7,235. Cement/Concrete Roads: 5.050 kms.; Black topped Roads: 302.653 kms.; Others 34.286 kms.; No. of Railway Stations: 7.

CO-OPERATION: (As on June 30, 1973):

Total number of co-operative societies: 217; Total membership: 70,822; Total working capital: Rs. 65,543 million.

Five Year Plan: The Fifth Plan out-lay for Pondicherry is Rs. 320 million against Rs. 125 million for the Fourth Plan. The sector wise allotment under various heads for the Fifth Plan and Annual Plan for 1974-75 respectively (in Rs. Million) are as follows: Agricultural programmes: 86.30; 15.45; Irrigation and Power: 35.237; 4.20; Industry & Mining: 16.563; 3.70; Transport and communications: 34.80; 4·40; Social Services: 144.81; 24.263; Miscellaneous: 2·29; 0.487; Total: 320.00; 52.50.

GENERAL

Rivers: In Pondicherry: The Gingee 30·215 kms.; the Pambayar 11·500 kms.; the Guduvayar 13·500 kms.; the Malatar 25·500 kms.; the Ponniar 14·000 kms.

In Karaikal: the Nandalar 15·165 kms.; the Nattar 12·600 kms.; the Vanjiar 12·300 kms.; the Noolar 14·000 kms.; the Arasalar 11·760 kms.; the Thirumalai Arasanar 10·650 kms. and the Pravadayanar 5·600 kms.

In Mahe: The Mahe 114·3 m. width—running for 1 km. length in the Territory.

In Yanam : The Coringa 15·240 m. in width running for 4 kms. length in the Territory ; the Godavary running for 8 kms. length in the Territory.

Lakes : Oussuteri 540·17 m. cft. and Bahour 200·00 m. cft.

AUROVILLE TOWNSHIP PROJECT

The project has the approval of the Government of India and UNESCO. It will house 50,000 residents and is expected to be completed in 15 to 20 years. The township is sponsored by the Sri Aurobindo Society. The township is 8 kms. from Pondicherry and will have an area of 20 sq. kms.

Conditions to live there : One has to be convinced of the essential unity of mankind and have the will to collaborate in the material realisation of that unity.

Foundation : Was laid on February 28, 1968, and one kilogramme of earth was flown by an Air France jetliner from the following 20 cities: Paris, Rio de Janeiro, Washington, Dakar, Tananarive, Tokyo, Mexico, Teheran, Algiers, London, Rome, Cologne, Brussels, The Hague, Stockholm, Athens, Tel Aviv, Cairo, Nairobi and Ottawa.

Construction Work : The plan of the city has been drawn up by a consortium of French architects and the labour is provided by young men and women from all over the world who are not paid but are provided food and necessities of life.

PUNJAB STATE

CAPITAL : Chandigarh. **Area :** 100 sq. kms. ; **Population :** 233,004 (Urban).

Area of the State : 50,376 sq. kms. ; **Population of the State :** 13,551,060 ; **Density** per sq. km. 270 ; **Sex Ratio :** 1,000 males to 865 females ; **Literacy :** 33·67 per cent.

Districts	Area in sq. kms.	Population
Amritsar	5,025	1,835,500
Gurdaspur	3,557	1,229,249
Hoshiarpur	3,887	1,052,153
Jullundur	3,396	1,454,501
Ludhiana	3,793	1,419,421
Bhatinda	5,564	1,027,293
Ferozepur	5,923	1,044,936
Patiala	4,608	1,200,567
Sangrur	5,096	1,146,650
Rupar	2,147	559,588
Kapurthala	1,634	429,514
Faridkot	5,746	1,151,738

NOTE : The names of the districts and district headquarters are the same.

Major Cities (Over 100,000 population) :

Name	Area in sq. kms.	Population
Amritsar	33·67	434,951
Ludhiana	19·65	401,176
Jullundur	44·03	296,106
Patiala	33·67	151,041

No. of Villages : 12,188 (inhabited) :

Towns : 108.

State Boundaries : The State is bound by Pakistan in the west, Jammu & Kashmir in the north, Himachal Pradesh in the north-east, Haryana in the south and Rajasthan in the south-west.

State Language : Punjabi.

AGRICULTURE (1972-73) :

Main Crop	Production (tonnes)	Area Sown (hectares)
Wheat	5,368,000	2,404,000
Rice	955,000	476,000
Bajra	108,000	129,000
Maize	906,000	562,000

See chapter on 'Agriculture' for more details.

Land Ceiling : Seven hectares in case of irrigated land capable of producing two crops in a year, 11 hectares in case of irrigated land capable of producing one crop, 20·5 hectares in case of barani land and 21·8 hectares in case of banjar land.

Irrigation & Power Projects : Please see under the main chapter on 'Irrigation and Power Projects'.

INDUSTRIES

Major industries of the State are : Art silk, woollen and cotton textiles, fertilisers, bicycle parts, bicycles, sewing machines, sugar, cement, flour mills, electrical appliances, automobile ancillaries, industrial goods, agricultural tractors and large number of small-scale industries, dry battery cell, canneries and vanaspati.

Major public sector undertakings in the State are Fertiliser Corporation of India, breweries and pharmaceuticals.

Production (1971–72) : Cotton textiles : 264·79 million metres ; Cycles : 239·89 ; Sewing machines : 41·02 million ; Woollen textiles : worth Rs. 199·45 million ; Agricultural implements and machine tools : worth Rs. 199·31 million ; Non-ferrous metal industries : worth Rs. 10·9 million ; Steel re-rolling : worth Rs. 272·82 million tonnes ; Wood and machine screws : worth Rs. 4·00 million ; Scientific instruments : worth Rs. 163,000 ; Hosiery : worth Rs. 273·6 million ; Powerloom weaving : worth Rs. 803·4 million ; Machine embroidery : worth Rs. 11·2 million ; Cotton ginning and processing : 11·5 million bales ; Sports goods : worth Rs. 23·80 million ; Resin and Turpentine : worth Rs. 17·7 million.

The State has 67 large and about 65 medium industrial units involving a total capital investment of about Rs. 996·44 million.

No. of joint stock companies : 922.

Small-scale industries : Punjab occupies a prominent position in the small sector with 37,515 units in the State.

Industrial Development Agencies : (See chapter on State Corporations).

Labour (1972) : Total workers : 3,912,592 ; Cultivators : 1,665,153 ; Agricultural Labourers : 786,705 ; Other Workers : 1,460,734 ; No. of working factories : 4,807 ; No. of workers in working factories : 118,657 ; No. of motor transport undertakings : 84 ; No. of persons employed : 7,172 ; Average daily employment in manufacturing industries : 56,000 ; Per capita annual earning of workers in manufacturing industries Rs. 2,611.

Labour Unions (1972) : on register 536 ; No. of Unions submitting returns : 389 ; Membership of unions submitting returns : 157,731 ; No. of trade unions submitting returns under State sphere : 389 ; Membership : 157,731 ; No. of unions submitting returns under Central sphere : 5 ; Membership : 653. Industrial injuries in factories 2,633 (fatal 22 ; non-fatal 2,611).

Industrial Disputes (1972) : No. of disputes : 3,987 ; No. of workers involved 7,083 ; No. of man-days lost : 107,538.

Industrial disputes in the public sector during 1972 were 73. No. of workers involved : 299 ; No. of man-days lost : 714.

No. of disputes referred to industrial relations machinery (1972) : 3,574 ; Disputes referred for adjudication : 867 ; Disputes referred for arbitration : 15 ; Awards given in favour of workers : 233.

EDUCATION (1972-73)

	Schools	Students
Primary	8,969	1,635,207
Middle	1,220	470,445
Higher Secondary	1,478	186,417

Colleges : No. of Arts, Science and Commerce Colleges : 144 ; Technical and Professional colleges : 38 ; Other colleges : 4 ; Teachers' Training Colleges : 17 ; Students in Colleges : 103,685.

Universities : Guru Nanak University, P.O. Box 111, Amritsar 143001 ; **Punjab University,** Chandigarh. No. of students : 168,630 ; **Punjab Agricultural University,** Ludhiana. No. of students : 2,460 ; **Punjabi University,** Patiala.

PUBLIC HEALTH (1972)

No. of Hospitals : 126 ; Primary Health Centres : 127 ; Dispensaries : 338 ; Ayurvedic and Unani dispensaries : 296 ; No. of Beds : 10,085 ; No. of Doctors : 9,691.

COMMUNICATIONS

No. of vehicles : 41,116 ; Public service vehicles : 2,748 ; Motor cabs : 644 ; Auto-rickshaws : 250 ; jeeps : 1,354 ; Goods vehicles : 9,246 ; Motor cycles : 15,352 ; Private motor cars : 8,530 ; Miscellaneous vehicles : 2,992.

Roads (1973) : National Highways : 975 kms. ; Length of extra-municipal roads maintained by Government departments other than Public Works Department and Local Bodies :—Surfaced 267 kms. ; Unsurfaced : 14,312 kms. ; Length of extra-Municipal roads maintained by Public Works Department, Local Bodies and those constructed by Community Development Blocks :—Surfaced 18,207 kms. ; Unsurfaced 1,500 kms. ; Kacha roads constructed in the CD & NES Blocks : 45,091 kms. ; Length of extra-municipal roads maintained by Public Works Department :—Black top 9,084 kms. ; Cemented/Concreted : 1 ; Unsurfaced : 970 ; Length of Extra-Municipal roads maintained by local bodies — Black top 424 kms. ; Unsurfaced motorable : 1,688 kms.

Press : (Leading Dailies)

Name	Town	Language	Circulation
Tribune ..	Chandigarh	English	105,153
Punjab Kesari	Jullunder	Hindi	24,668
Veer Pratap ..	-do-	Hindi	23,040
Ajit	-do-	Punjabi	19,892
Hind Samachar	-do-	Urdu	40,120
Pratap ..	-do-	Urdu	17,576
Milap ..	-do-	-do-	24,700

GENERAL

Panchayats : The entire State is covered by panchayats. A total area of 288,560 hectares of Shamlat land is vested in the panchayats in the State. Of this 86,728 hectares of land is cultivable and 201,832 hectares non-cultivable. By leasing out the cultivable land the panchayats derive an income of Rs. 26,134,701 per annum.

Rivers: The Beas, the Sutlej, the Ravi and the Saraswati.

RAJASTHAN STATE

CAPITAL: Jaipur. **Area:** 206·06 sq. kms.; **Population:** 615,258.

Area of State: 342,214 sq. kms.; **Population of State:** 25,765,806. **Density :** 75 per sq. km.; **Sex Ratio :** 911 females per 1,000 males. **Literacy :** 19·07 per cent.

No. of Districts : 26 (82 Sub-divisions & 196 tehsils).

Name†	Area in sq. kms.	Population
Ganganagar	20,629	1,394,011
Bikaner	27,321	573,149
Churu	16,829	874,439
Jhunjhunu	5,929	929,230
Alwar	8,382	1,391,162
Bharatpur	8,093	1,490,206
Sawai Madhopur ..	10,593	1,193,528
Jaipur	14,000	2,482,385
Sikar	7,732	1,042,648
Ajmer	8,479	1,147,729
Tonk	7,200	625,830
Jaisalmer	38,401	166,761
Jodhpur	22,860	1,152,712
Nagaur	17,718	1,262,157
Pali	12,391	970,002
Barmer	28,387	774,805
Jalore	10,640	667,950
Sirohi	5,135	423,815
Bhilwara	10,450	1,054,890
Udaipur	17,267	1,803,680
Chittorgarh	10,858	944,981
Dungarpur	3,770	530,258
Banswara	5,037	654,586
Bundi	5,550	449,021
Kota	12,437	1,143,870
Jhalawar	6,216	622,001

Major Cities

Name	Area in sq. kms.	Population
Jaipur	206·06	615,258
Jodhpur	230·18	317,612
Ajmer	45·40	264,291
Kota	141·23	212,991
Bikaner	38·09	188,518
Udaipur	59·21	161,278
Alwar	40·47	100,378

No. of Villages : 33,305 inhabited and 2,490 uninhabited.

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* Includes length of roads in Haryana State.

† Headquarters of the same name.

Source : 1971 census.

State Boundaries : In the north and north-east it is bound by Haryana, Delhi and Uttar Pradesh; in the east and south-east by Madhya Pradesh; in the south-west by Gujarat and in the west by Pakistan.

State Language : Hindi.

Agriculture : The principal corps of the State are wheat, jowar, bajra, maize and barley. The total cropped area (including double crop) in 1972-73 was 16·729 million hectares. (See Chapter on "Agriculture" for other details.)

Irrigation : In 1972–73 the total irrigated area was 15 per cent of the total cropped area. Fourth Plan schemes were expected to increase the irrigated area by 2,681,947 hectares.

Existence of ground water reserves, spreading over an area of 41,000 sq. kms. with estimated reserves of 5,000 million cubic metres of water every year, has been discovered in the desert areas of the State.

Land Ceiling* : 12·14 hectares for a family of five. If the family consists of more than five persons, every person in addition will get 2·42 hectares subject to a maximum of 24·28 hectares.

Livestock and Animal Husbandry : The milk yield of cows in Rajasthan is superior and the average is currently estimated to be about 363 litres per cow per year. Sheep constitute an important source of wealth. With a sheep population representing 19·1 per cent of the total sheep population of India Rajasthan accounts for 45 per cent of all-India wool production.

Irrigation and Power Projects : Please See chapter on "Irrigation and Power Projects".

Industries Large-Scale and Medium Industries : (1971–72): Cotton Textile and Yarn mills 19; Synthetic Fibre plants 3; Woollen mills 5; Cement factories 4; Glass and Potteries 4; Mica insulated bricks 1; Other Mineral-based industries 3; Fertiliser factory 1; Other Chemical-based industries 4; Distilleries and Breweries 7; Engineering industries 8; Electrical industries 6; Scientific instruments 2; Roller flour mills 6; Vanaspati 3; Sugar factories 3; Railway wagons manufacturing unit 1.

Production during 1973: Cloth 67·7 million metres, Yarn 33·1 million kgs., Cement 1·6 million tonnes, Salt 722,372 tonnes, Ball-bearing (nos.) 7·2 million, Sugar 6,028 tonnes, Fertilizers 241,012 tonnes, Spirits (all types) 1·19 million litres and wines 0·94 million litres.

Small-Scale Industries : The number of small-scale industries registered with the Director of Small Scale Industries till mid-1971 was 9,949. The most important cottage and small-scale industries in the State are tie and dye fabrics, wooden toys, *Gota Kinar*, handmade paper, gem cutting, cloth printing, agricultural tools and implements, embroidered shoes, leather bags, water bottles and handloom weaving.

Industrial Agencies : Rajasthan Financial Corporation, Surya Nivas, C-18 Bhagwandas Rd., Jaipur 302001; Rajasthan Industrial and Mineral Development Corporation Ltd., Jawaharlal Nehru Marg, Jaipur 302001; Rajasthan Small Industries Corporation Ltd., Ashok Nagar, Jaipur 302001 and Director of Industries, Jaipur.

Industrial Estates : Industrial estates have been established at Jaipur, Makhupura (Ajmer), Bhilwara, Udaipur, Pali, Sumerpur, Jodhpur, Bikaner, Bharatpur, Ganganagar and Kota.

Labour : No. of registered trade unions during 1972-73: 924. Total membership: 139,273.

No. of registered factories (1972) 2,423. Total No. of workers in the State (1971 census): 8,048,859; Workers as per cent of total population: 31·24; Cultivators: 5,225,296; Agricultural labourers: 749,116; Other workers: 2,074,447; Non-workers: 17,716,947.

Industrial Disputes (1972-73): Strikes & Lockouts: 51; Workers involved: 30,863; Mandays lost: 29,370.

Employment Exchange Statistics: (1973): No. of Employment exchanges: 26; Registration 192,507; Placements: 17,238.

Education : (1972-73 provisional): Higher secondary schools (including multi-purpose schools) 1,345; Secondary schools (including senior basic schools) 3,337; Primary/Junior basic schools 19,891; Schools for professional education 11; Schools for Special Education 3.

Teachers: High/Higher-Secondary/Multi-purpose Schools: 24,890; Middle/Senior Basic Schools: 30,492; Primary/Junior Basic Schools: 43,183; Schools for Professional Education: 115; Schools for Special Education: 32.

Colleges : Colleges for General Education: 83; Colleges for Professional Education: 96; Colleges for Special Education: 44.

Universities : University of Rajasthan, Jaipur; Established: 1947; No. of students during 1971-72: 48,178. **University of Jodhpur,** Jodhpur; Established: 1962; No. of students during 1969-70: 7,786; **University of Udaipur,** Udaipur; Established: 1962; No. of students during 1970-71: 7,176; Institution deemed as University: Pilani.

Amount spent on education: Rs. 696·59 million (1973-74).

Public Health : No. of Hospitals during 1972: 136. T.B. Hospitals: 3; T.B. Clinics: 27. Sanatoria: 2; No. of T.B. beds: 1,239; Leprosy Hospitals: 2; Beds: 95; Mental Hospitals: 2; Beds: 331; Isolation Hospitals: 2; Beds: 230; Other Hospitals: 125; Beds: 13,118; (General 11,422; Maternity 1,098; Eye 518; V. D. 80). Total No. of beds: 15,013; Dispensaries; 555; Primary Health Centres: 232; Beds: 1,631.

Medical Practitioners (1972-73): Civil Assistant Surgeons: 1,471; Specialists: 85; Staff Nurses: 601; Midwives: 1,437; Compounders: 3,103.

Non-Allopathic Hospitals and Dispensaries : Ayurvedic and Unani Hospitals: 39; No. of beds: 404; Dispensaries: 1,960; Vaidyas and Hakims: 1,960; Compounders and Nurses: 1,746.

Medical Colleges : See chapter on "Education".

Communications : Total No. of vehicles (1973): 127,792; Private cars and jeeps: 29,457; Motor cycles, autocycles and scooters: 41,413; Taxis, cars and contract carriages: 817; Stage carriers: 9,472; Public and Private carriers: 24,431; Tractors: 20,831; Others: 1,321; Total: 127,792.

Length of Motorable Roads : Cement concrete roads 42 kms.; Painted roads 16,161 kms.; Metalled roads 5,526 kms.; Gravelled roads 6,050 kms.; Fair weather and dressed up tracks 3,964 kms.; National Highways: 2,089 kms.; Total length of roads: 33,832 kms.

Railways: Rajasthan is served by 6,227·5 kms. of railway. Out of this nearly 5,820·2 kms. are in metre gauge, 293 kms. in broad gauge and 114·3 kms. in narrow gauge.

Press Dailies : *English :* Rajasthan Chronicle, Jaipur; Navjyoti Herald, Jaipur; Jalte Deep, Jodhpur.

Hindi : Aag, Kota; Adhikar, Jaipur; Amar Rajasthan, Jaipur; Chambal, Kota; Kalam, Bikaner; Mashal, Jaipur; Nav Jyoti, Ajmer; Nava Jyoti, Jaipur;

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* The data is subject to revision.

Rajasthan Patrika, Jaipur; Rajasthan Times, Alwar; Rashtra Doot, Jaipur; Udai Bhanu, Bharatpur; Vir Sainik, Bharatpur; Jalte Deep, Jodhpur.

Sindhi: Bharat Bhoomi, Ajmer; Hindvasi, Ajmer; Hindu, Ajmer.

General: Important Rivers: The Luni, the Chambal, the Banas, the Mahi and the Sabarmati. Tributories of the Luni: the Bandi and the Sarasvati. Tributaries of the Chambal: the Kali Sindh and the Parbati. Tributary of the Banas: the Berach.

Lakes: (Name and location) Sambhar (Jaipur), Sili Sedh (Alwar); Jai Samand (Udaipur); Fatehsagar, (Udaipur); Pichhola (Udaipur).

Housing: During the Fifth Plan period the State Govt. envisages an expenditure of Rs. 200 million on Housing Schemes. L.I.C. loan of Rs. 8·5 million has been allocated for 1974-75 to implement the schemes.

Minerals: Rajasthan occupies the eighth place in mineral production. The total value of production in 1972 was Rs. Rs. 200 million and Rs. 220 million in 1973. This is the only State with production of lead concentrate, zinc concentrate, Emerald, Tourmaline and Wollastonite. The mineral sector provides employment to 21,800 persons per day on an average in 1973. The State produced 188,100 tonnes of **Soapstone** during 1973-74 against the total output of 189,100 tonnes for the whole country.

Famine: Famine has affected more than 25,000 villages with a population of over 20 million in the State due to the failure of Kharif crops in 1974.

Annual Plan (1975-76): The Annual Plan provides an outlay of Rs. 975·00 million for the State, out of which Rs. 233·3 million had been earmarked for irrigation schemes including Rs. 100·00 million for the Rajasthan Canal Project and Rs. 279·7 million for the power schemes.

TAMIL NADU STATE

CAPITAL: Madras. **Area:** 128 sq. kms.; **Population:** 2,469,449.

Area of State: 130,069 sq. kms.; **Population of State:** 41,199,168; **Males:** 20,828,021; **Females:** 20,371,147. **Decennial Population Growth Rate in the State (1961-71):** 22·30 per cent. **Sex Ratio:** 978 Females per 1,000 Males. **Density:** 317 per sq. km.;

Percentage of Literates to Total Population: 39·46 (51·78 per cent among males and 26·86 per cent among females).

Percentage of Workers to Total Population: 35·78 (56·02 per cent for males and 15·09 per cent for females).

Percentage to Total Workers: Cultivators: 31·26; Agricultural labourers: 30·46; Other Workers: 38·28.

Percentage of Urban Population to Total Population: 30·26.

Birth Rate for 1972 (Rate per 1,000 of estimated mid-year Population): 24·4.

Death Rate for 1972 (Rate per 1,000 of estimated mid-year Population): 8·4.

Infant Mortality Rate for 1972 (Rate per 1,000 of Live Births): 55·4.

Districts with Headquarters in brackets, Area in thousand sq. kms. and Population respectively: Madras City (Madras) 0·1; 2,469,449; Chingleput (Kanchipuram) 7·9; 2,907,599; North Arcot (Vellore) 12·3; 3,755,797; South Arcot (Cuddalore) 10·9; 3,617,723; Dharmapuri (Dharmapuri) 9·6; 1,677,775; Salem (Salem) 8·6; 2,992,616; Coimbatore (Coimbatore) 15·7; 4,373,178; The Nilgiris (Ootacamund) 2·5; 494,015; Madurai (Madurai) 12·6; 3,938,197; Tiruchirapalli (Tiruchirapalli) 14·3; 3,848,816; Thanjavur (Thanjavur) 9·7; 3,840,732; Ramanathapuram (Madurai) 12·6; 2,860,207; Tirunelveli (Tirunelveli) 11·4; 3,200,515; Kanyakumari (Nagercoil) 1·7; 1,222,549 (Total 14).

Major Cities: With area (in sq. kms.) and population. Madras City: 128 — 2,469,449; Madurai: 20·92 — 549,114; Coimbatore: 23·49 — 356,368; Salem: 19·99 — 308,716; Tiruchirapalli: 21·57 — 307,400; Tuticorin: 13·38 — 155,310; Nagercoil: 24·29 — 141,288; Thanjavur: 24·29 — 140,547; Vellore: 10·54 — 139,082; Dindigul: 11·77 — 128,429; Singanallur: 48·65 — 112,206; Tiruppur: 11·92 — 113,302; Kumbakonam: 11·54 — 113,130; Kanchipuram: 11·37 — 110,657; Tirunelveli: 15·33 — 108,498; Erode: 8·44 — 105,111; Cuddalore: 27·79 — 101,335.

No. of Villages (1971): 16,660.

No. of Towns (1971): 439.

State Language: Tamil. Other languages spoken: Telugu, Malayalam, Kannada, Urdu and English.

Situation: The State lies between 8° 5′ and 13° 35′ of northern latitude and 76° 15′ and 80° 20′ of eastern longitude.

State Boundaries: Bound in the east by Bay of Bengal, South by the Indian Ocean, West by Kerala State and north by Andhra and Karnataka States.

Land Utilisation

Classification of area	Area (in '000 hectares) 1972-73
(*a*) By professional survey	12,998
(*b*) By village papers	12,995
Forests	2,008
Barren and uncultivable land	803
Land put to non-agricultural uses	1,505
Cultivable waste	457
Permanent pastures and other grazing lands	228
Land under miscellaneous tree crops and groves (not included in the net area sown)	237
Current fallows	863
Other fallow lands	575
Net area sown	6,332
Area sown more than once	1,367
Gross cropped area	7,699
Area under food crops	5,693†
Area under non-food crops	1,948†

† Figures relate to 1971-72.

Civil Supplies: Imports (1971-72).

Sl. No.	Commodity	Quantity (in tonnes)	Value (Rs. in million)
1.	Wheat	517,458	30·10
2.	Rice	—	—
3.	Maize (corn) Meal	800	0·15
4.	Cereals	500	4·0
5.	Milk and Cream evaporated, dry or condensed	3,894	1·92

Land Ceiling : Reduced from 24·28 standard hectares to 15 standard hectares per family.

Fisheries : (See chapter on "Fisheries.")

Forests : (1973-74)

Area of Reserved Forests	17,274 sq. kms.
Percentage of total land area of State	15·5
Area of Reserved Lands	3,651 sq. kms.
Output of Timber	30,810 cub. mtrs.
Quantity of Fuel extracted	320,332 cub. mtrs.
Quantity of Sandal Wood	1,370 tonnes

Rubber field latex collected. Value : Rs. 15 million

Major Irrigation Projects : See chapter on "Irrigation and Power."

Electrification in the State : Number of towns and villages electrified during 1971-72 : 273 : 60,318.

Major Power Projects : See chapter on "Irrigation and Power".

MADRAS CITY

Area : 128 sq. kms.; **Population :** 2,469,449; Males: 1,297,195; Females: 1,172,254. **Sex ratio** (Females per 1,000 Males): 904; **Literacy :** 62·01 per cent; Males 70·57 per cent; Females 52·54 per cent.

Decennial Growth Rate : 42·81. **Density per Sq. Km. :** 19,293.

Local Administration: Following are the units of Local Administration as in 1972-73.

Corporations (Madras and Madurai) 2; Municipalities 101; Panchayat Townships 12; Panchayat Unions 374; Town Panchayats 597; Village Panchayats 12,630.

AGRICULTURE

Refer to the chapter on 'Agriculture'.

MAJOR INDUSTRIES *

Sl. No.	Type of Industry	No. of units	Number Employed	Output (Rs. in million)
1.	Spinning, Weaving and Finishing of Textiles	530	133,986	33,131
2.	Electric Light and Power Gas	31	90,762	9,854
3.	Manufacture and Repair of Motor Vehicles	319	33,055	10,055
4.	Manufacture of Machinery except Electrical Machinery ..	434	36,173	10,378
5.	Manufacture of Miscellaneous Food Preparations	720	38,872	10,331
6.	Manufacture of Electrical Machinery, Apparatus, Appliances and Supplies ..	145	16,692	5,108
7.	Manufacture of Railroad Equipments ..	9	26,916	4,914
8.	Printing, Publishing and Allied Industries (including Book Binding)	457	22,059	31,168
9.	Basic Industrial Chemicals including Fertilisers	86	13,956	5,772
10.	Ferrous Metal Industries—Iron and Steel Basic Industries ..	143	20,717	5,921
11.	Sugar Factories ..	21	11,824	5,005
12.	Manufacture of Miscellaneous Chemical products	246	17,952	2,827
13.	Manufacture of Rubber and Rubber Products	53	6,068	3,706
14.	Manufacture of Cement (Hydraulic) ..	8	6,051	3,953
15.	Manufacture of Metal products except machinery and Transport Equipment	251	11,048	2,006
16.	Tanneries and Leather Finishing Plants ..	222	12,963	5,669
17.	Manufacture of Motor Cycles and Bicycles	11	4,869	1,646
18.	Manufacture of Grain Mill Products ..	857	15,216	7,895
19.	Manufacture of non-metallic mineral products (not elsewhere classified)	45	3,515	1,260
20.	Others	1,148	61,280	3.667

Industrial Development Agencies : (See chapter on "State Corporations.")

LABOUR : No. of Trade Unions (as on March 31, 1973): 2,403; No. of strikes including lockouts in 1973 : 304; No. of man-days lost by strikes : 2,056,995.

No. of Persons Employed as on Sept. 30, 1973.

Sl. No.	Category	No. of persons (in '000)
1.	Agriculture, Livestock, Forestry and Fishing	15·6
2.	Mining and Quarrying	18·8
3.	Manufacturing	62·1
4.	Construction	50·5
5.	Electricity, Gas, Water and Sanitary Services	75·5
6.	Trade and Commerce	35·7
7.	Transport, Storage and Communications	175·4
8.	Servic[illegible]	533·0
	Total Employed	966·6

No. of persons on live register of employment exchanges in Dec., 1973 : 592,000

EDUCATION (1973-74)

NUMBER OF SCHOOLS

	Number	Boys*	Girls*	Teachers
Elementary Schools (Lower)	26,726	2,132,253	1,626,887	106,332
Elementary Schools (Higher)†	5,773	1,280,045	933,936	66,843
Indian High Schools (Boys)*	2,717	1,020,141	529,332	62,933
Matriculation Schools	24	10,167	12,249	882
Central Schools	9	5,338	2,888	350
Anglo-Indian Schools (Boys)*	20	11,445	2,634	442
Schools affiliated to Central Board of Secondary Education	24	10,742	4,804	675
Pre-Primary Schools	37	2,090	2,301	135

† Includes middle Schools. * Girls are admitted to boys' high schools and via-versa.

Universities : Madras University, Chepauk, Madras 600005; Annamalai University, Annamalainagar; Madurai University, Madurai; Tamil Nadu Agricultural Univerisy, Coimbatore.

Professional Institutions (1973-74)†

	No. of Colleges	No. of Scholars
Medical Colleges	10	9,887
Agricultural Colleges	3	1,513
Law College	1	2,544
Veterinary College	1	894@
Engineering Colleges	12	11,192
Polytechnics	35	9,762
Technical, Arts and Industrial Schools	107	17,916@

† Provisional. @ Fig. relates to 1972-73.

Number of Educational Institutions (1973-74)

Universities	4
High/Higher Secondary/Post Basic Schools	2,823
Middle/Senior Basic/Higher Elementary Schools	5,773
Primary/Junior Basic Schools	26,726
Pre-Primary Schools	37
Colleges for General Education	178
Colleges for Special Education	23
Colleges for Professional Education ..	204
Schools for Special Education	84@
Schools for Vocational Training and Technical Education	134

@ Fig. relates to 1972-73.

PUBLIC HEALTH : June 30, 1974†

No. of Hospitals, Dispensaries	362
No. of Dispensaries : Allopathic	684
,, ,, Ayurvedic	99
No. of Beds in Allopathic Hospitals ..	36,242
No. of Beds in Indian System Hospitals ..	600
No. of Nurses	19,088
No. of Registered Doctors	21,992

† Provisional.

COMMUNICATIONS : Motor Vehicles on road (as on 31-3-1974) : 166,513.

Length of Motorable Roads (as on 31-3-1973) in kilometres :

National Highways 1,855; State Highways 1,729; Major District Roads 13,864; Other District Roads and Village Roads 10,680; Roads maintained by Panchayat Unions and Panchayats 42,720; Other Roads maintained by Municipalities and Public Works Department 7,615; Total 78,463.

Post & Telegraph (as on 30-12-1974) : Rural Post Offices 9,422; Urban Post Offices 1,524; Telegraph Offices (including Licensed Offices) 1,604. **Telephone connection** (as on 30-11-74) 85,810; Telephone exchanges 18: PBX Boards: PBX manual 1,003, Automatic 258; Total 1,261 Public Call Offices 781.

PRESS : Dailies 104, Weeklies 119; tri-weeklies 3; Fortnightlies 146; Monthlies 467; Quarterlies 79; Bi-monthlies 28; Annuals 11.

LEADING DAILIES WITH PLACE OF PUBLICATION :

The Hindu (E)	Madras & Coimbatore
The Indian Express (E)	Madurai Madras
The Mail (E)	Madras
Daily Thanthi (T)	Madurai Tiruchirapalli Madras Tirunelveli Coimbatore Vellore
Dinamalar (T)	Tirunelveli Tiruchirapalli
Dinamani (T)	Madurai Madras
Malai Murasu (T)	Tirunelveli Madurai Coimbatore Vellore Madras Salem
Murasoli (T)	Tanjore Madras
Navamani (T)	Madras
Nathigam (T)	Madras
Navasakthi (T)	Madras
Alai Osai (T)	Madras
Swadesamitran (T)	Madras
Thennagam (T)	Madras
Makkal Kural (T)	Madras
Logavani (M)	Madras
Musalman (U)	Madras

(E) English. (T) Tamil. (M) Malayalam. (U) Urdu.
† Combined circulation of Vijayawada, Bangalore and Cochin included.

Ports : (See chapter on 'Ports')

GENERAL : Climate : It is essentially tropical. The maximum temperature hardly exceeds 43°C (110°F) and the minimum seldom goes below 18°C (65°F).

Temperature : From January the temperature rises through the months of February and March to a maximum in April, May and June and falls gradually until September. On the commencement of North-East monsoon in Oct., the temperature falls at fairly a rapid rate till December–January.

Rainfall : The rainfall in the region is determined by the south-west monsoon (June to September) and the north-east monsoon (October to December). The average rainfall of the Madras Division is 1,008·1 mm. with an average annual number of 53·5 rainy days, i.e. days on which 2·5 mm. or more of rain is recorded.

Soils : The three main types of soils found are red, black and alluvial. Red is however the predominant type. Along the coast line patches of arenaceous soils are also found.

Minerals : Salt, limestone, magnesite, gypsum, crude mica, bauxite, ilmenite, fireclay, lignite, iron ore etc.

Hills : The important hill ranges are the Western Ghats (Palani Hills in Madurai district and Annamalai in Coimbatore district form part of this range), the Eastern Ghats, Shevaroy Hills, Javadi Hills, the Kairayans and the Pachaimalai. The Palghat gap averaging 24 kms. is the only marked break in the Western Ghats.

Important Rivers : The Cauvery, the Ponnaiyar, Palar, the Vaigai and the Tambraparani, Cheyyar, Meyar, Bhavani, Amaraveti & Chittar.

Major Lakes : (Capacity more than 14,000 million litres) Chambarambakkam, Madurantakam and Red Hills lakes (Chingleput District) ; Veeranam Tank (South Arcot District) ; Kaveripuk (North Arcot District) ; Ramnad and Rasimangalam Tanks (Ramanathapuram District).

TRIPURA STATE

THE Union Territory of Tripura became a full-fledged State on January 21, 1972.

Capital : Agartala. **Area :** 15·78 sq. kms. ; **Population :** 59,625.

Area of State : 10,477 sq. kms. ; **Population of State :** 1,556,342. **Density :** 149 per sq. km.; **Sex Ratio :** 943 females per 1,000 males. **Literacy :** 30·98 per cent.

Districts	Area in sq. kms.	Population
North Tripura	3,541	405,009
West Tripura	3,359	751,605
South Tripura	3,577	399,728

No. of Tehsils : 44. **No. of Towns :** 6. **No. of Villages :** 4,727.

State Boundaries : The State is bounded in the north-west, west, south and south-east by Bangla Desh and in the north-east by Assam and Mizoram.

State Language : Bengali is predominantly spoken.

AGRICULTURE

Over 60 per cent of the land area is forest and of the total reported area of 1·07 million hectares, only 0·24 million hectares or about 22 per cent is under crops. The principal products are paddy, jute and mesta, potatoes, oilseeds, sugar-cane and cotton. The State is, therefore, deficit in foodgrains and has to import about 30,000 tonnes to meet its requirements. (For production figures and other details please see Chapter on " Agriculture ".)

Power Development : The source of power in Tripura is from diesel stations located at Agartala, Ambasa, Khowai, Dharmanagar, Kailashahr, Udaipur and Bogafa. The aggregate installed capacity of the generating stations is 5,051 kW. but since the generators are old the aggregate capability is only 1,600 kW. Part of the shortfall is made up by purchasing power from Assam. Work is in progress on two grid substations at Dharmanagar and Agartala and on the Gomti Hydro-Electric Project after which Tripura will be able to draw more power from Assam.

Tea Industry : Tea plantations in Tripura cover an area of about 5,526 hectares and their annual production of processed tea is approximately 3·78 million kgs. The area under tea constitutes about 2·3 per cent of the total cultivated area in the State.

Industrial Estates : There are two industrial estates in the State. The industrial estate at Udaipur with one unit in blacksmithy and one unit in carpentry in public sector produced articles such as furniture and agricultural and tea garden implements worth about Rs. 28,800 during 1970-71. The industrial estate at Arundhatinagar produced articles worth Rs; 1,091,000 in the estate and articles worth Rs. 1,090,000 were sold during the year 1970-71.

MAJOR INDUSTRIES

Industry (Units in brackets)	Total number of workers	Value of production (in Rs.)
Handloom (607)	1,943	3,105,688
Tailoring (691)	1,046	257,050
Carpentry (251)	881	1,810,979
Blacksmithy (301)	579	755,095
Pottery (633)	1,591	1,194,078
Rice, Oil & Flour mills (128)	1,931	1,082,355
Bidi making (23)	703	1,008,290
Trunk making (16)	59	324,275
Oil Ghani (70)	116	108,773
Gur Khandsari (86)	230	128,518
Bakery (31)	349	1,534,470
Motor repairing etc. (40)	172	157,063
Miscellaneous (1)	92	230,075
Umbrella Handle mfg. (3)	34	131,500
Soap manufacturing (5)	49	639,217
Brick manufacturing (19)	2,050	3,775,120
Pharmaceutical works (3)	16	117,300
Aluminium Utensils mfg. (1)	18	400,000
R.C.C. Spun Pipe mfg. (1)	40	427,000
Hosiery (1)	7	110,000
Fruit Canning (1)	25	216,000
Cooking Spices mfg. (1)	8	160,000

Industrial Development Agency : The Tripura Small Industries Corporation Limited, Tripura.

Labour : No. of Trade Unions on register : 69 ; No. of Unions submitting returns : 29 ; Total membership : 13,000; No. of factories : 67 ; Total No. of workers in the State (1971 census) : 434,796 ; Workers as per cent of total population : 27·93 ; Cultivators : 234,615 ; Agricultural labourers : 85,650 ; Other workers : 114,531 ; Non-workers : 1,122,026.

Industrial Disputes (1971) : No. of industrial disputes : 15 ; No of workers involved : 2,584 ; No. of man-days lost : 53,791.

Employment Exchange (1972) : No. of registrations : 10,012 ; No. of vacancies notified : 779 ; No. of candidates placed : 396 ; No. on the waiting list in the Live Register : 36,298.

Total No. of employees was 43,704 (6,478 private sector and 37,226 public sector) as in September, 1972.

EDUCATION (1970-71)

Sub-Division	Nursery schools including Balwadi centres	Primary Basic and Non-Basic Schools	Middle Basic and Non-Basic Schools	High and Higher Secondary Schools	Colleges for General Education	Colleges for Professional Technical Education	Social Education Centres
Sadar	102	342	59	34	4	7	112
Khowai	37	152	19	8	—	—	48
Kamalpur	40	100	14	5	—	—	10
Kailashahr	31	135	23	8	1	—	43
Dharmanagar ..	34	176	25	8	—	1	59
Sonamura	20	74	18	5	—	—	30
Udaipur	31	89	21	6	—	1	27
Belonia	27	149	22	9	1	—	25
Sabroom	14	82	10	3	—	—	18
Amarpur	21	85	9	3	—	—	27
Total ..	357	1,384	220	89	6	9	423

Enrolment in Schools : Nursery Schools including Balwadi Centres : 16,825 ; Primary Basic and Non-Basic Schools : 127,013 ; Middle Basic and Non-Basic Schools : 53,736 ; Higher Secondary Schools : 42,868 ; Schools for Vocational and Special Education — Agriculture : 116 ; Nurses Training Centres : 57 ; Industrial Training Centres : 104 ; Others (Oriental Studies and Hindi Learning Centres) : 2,324 ; Social Adult Education : 9,373 ; Physical Education : 743.

In Colleges : Total number of students in Colleges for General Education : 6,769 ; Professional and Technical Colleges : — ; Teacher's Training 507 ; Polytechnic 31 ; Engineering Colleges : 111 ; Music Colleges : 135.

PUBLIC HEALTH

Before independence there were very few facilities to provide medical care. There was one 40-bed hospital at Agartala and 29 dispensaries. During the last two decades considerable progress has been made in bringing medical care to the people.

Hospitals and Dispensaries (1970-71) : Hospitals : 11 ; Public Health Centres : 23 ; Dispensaries : 124 ; Doctors : 182 ; Compounders : 178 ; Nurses : 274 ; Total No. of Beds : 790 ; Ayurvedic Dispensaries 1 ; Homoeopathic Dispensaries 1 ; Antinatal Clinic 1 ; Eye Clinic 1 ; Chest Clinic 1 ; Leprosy Clinic 1 ; Dental Clinic 1 ; E.N.T. Clinic 1 ; V.D. and Skin Disease Clinics 2 ; Psychiatric Clinic 1.

COMMUNICATIONS

Total number of vehicles as on March 31, 1972 : 4,522.

Motor Cycles : 470 ; Autorickshaws : 3 ; Jeeps : 699 ; Private Motor Cars : 1,246 ; Trucks : 1,750 ; Buses : 258 ; Vans : 75 ; Tractors : 41.

Roads : Length of motorable roads : 3,599 kms. ; Length of surface roads : 1,249 kms. ; Unsurfaced roads : 2,278 kms. ; National Highways : 1 ; Number of State Highways : 2.

Names of State Highways : (1) Assam-Agartala Road, (2) Agartala-Sabroom Road.

In the Fifth Plan Rs. 100 million are likely to be allotted for development of roads.

Railways : A railhead has been opened at Dharmanagar. A survey to explore the possibility of linking Agartala with Dharmanagar by a railway track has been completed.

PRESS

Leading Dailies : *Ganaraj* (Bengali), Agartala ; *Jagaran* (Bengali), Agartala ; *Dainik Sambad* (Bengali), Agartala ; *Bhabi Bharat* (Bengali), Agartala ; *Daily Janapad* (Bengali), Agartala ; *Dainik Vivek* (Bengali), Agartala ; *Daily Rudrabina* (Bengali), Agartala ; *Daily Tripura Prakash* (Bengali), Agartala ; *Dainik Nagarik* (Bengali), Agartala.

Rivers : The Gumti, The Khowai, The Manu, The Haorah, The Muhuri.

UTTAR PRADESH STATE

CAPITAL : Lucknow. **Area :** 103·60 sq. kms. ; **Population :** 813,982.

Area of State : 294,413 sq. kms. ; **Population of State :** 88,341,144. **Density :** 300 per sq. km. ; **Sex Ratio :** 879 females per 1,000 males ; **Literacy :** 21·70 per cent.

No. of Tehsils : 231 ; No. of Towns : 293 ; No. of Villages : 112,561.

Major Cities : With area in sq. kms. and population over 100,000 respectively :

Kanpur : 261·59 ; 1,154,388. Lucknow : 103·60 ; 749,299. Varanasi : 73·81 ; 583,356. Agra : 61·79 ; 591,917. Allahabad : 62·67 ; 490,622. Meerut : 13·80 ; 270,993. Bareilly : 21·34 ; 296,248. Moradabad : 9·84 ; 258,590. Aligarh : 31·85 ; 252,314. Gorakhpur : 38·85 ; 230,918. Saharanpur : 25·25 ; 225,396. Dehra Dun : 31·08 ; 166,073. Jhansi : 35·22 ; 173,292. Rampur : 20·20 ; 161,417. Shahjahanpur : 9·45 ; 135,604. Mathura : 9·37 ; 132,028. Firozabad : 6·21 ; 133,863. Ghaziabad : 11·13 ; 118,836. Muzaffarnagar : 12·04 ; 114,783. Farrukhabad-cum-

Fatehgarh : 10·64 ; 102,768. Mirzapur-cum-Vindhyachal : 38·85 ; 105,939. Faizabad-cum-Ayodhya : 31·49 ; 102,835.

Names of the district headquarters are the same as the names of the districts except for the districts whose headquarters are given in brackets: Farrukhabad (Fatehgarh); Garhwal (Pauri); Jalaun (Orai); Tehri Garhwal (Narendranagar).

Districts	Area in '000 Sq. Km.	Population
Uttar Kashi	8·0	147,805
Chamoli	9·1	292,571
Tehri-Garhwal	4·4	397,385
Garhwal	5·4	553,028
Pithoragarh	7·2	313,747
Almora	7·0	750,038
Naini Tal	6·8	790,080
Bijnor	4·9	1,490,185
Moradabad	5·9	2,428,971
Budaun	5·1	1,645,967
Rampur	2·4	901,209
Bareilly	4·1	1,779,867
Pilibhit	3·5	752,114
Shahjahanpur	4·6	1,286,104
Dehra Dun	3·1	577,306
Saharanpur	5·5	2,054,834
Muzaffarnagar	4·2	1,802,289
Meerut	5·9	3,366,953
Bulandshahr	4·9	2,073,343
Aligarh	5·0	2,111,829
Mathura	3·8	1,290,307
Agra	4·8	2,308,638
Etah	4·4	1,570,925
Mainpuri	4·3	1,445,534
Farrukhabad	4·3	1,556,930
Etawah	4·3	1,447,702
Kanpur	6·1	2,996,232
Fatehpur	4·2	1,278,254
Allahabad	7·3	2,937,278
Jhansi	10·1	1,307,058
Jalaun	4·5	813,490
Hamirpur	7·2	988,215
Banda	7·6	1,182,215
Kheri	7·7	1,486,590
Sitapur	5·7	1,884,400
Hardoi	6·0	1,849.519
Unnao	4·6	1,484,393
Lucknow	2·5	1,617,846
Rae Bareli	4·6	1,510,812
Bahraich	6·9	1,726,972
Gonda	7·3	2,302,029
Bara Banki	4·4	1,635,593
Faizabad	4·4	1,927,281
Sultanpur	4·4	1,642,928
Pratapgarh	3·7	1,422,707
Basti	7·3	2,984,090
Gorakhpur	6·3	3,038,177
Deoria	5·4	2.812,350
Azamgarh	5·7	2,857,484
Jaunpur	4·0	2,005,434
Ballia	3·2	1,588,935
Ghazipur	3·4	1,531,654
Varanasi	5·1	2,852,459
Mirzapur	11·3	1,541,088

State Boundaries : It is bound by Tibet and Nepal in the north, Himachal Pradesh in the north-west, Punjab in the west, Rajasthan in the south-west, Madhya Pradesh in the south and Bihar in the east.

State Language : Hindi.

AGRICULTURE

(For details see chapter on 'Agriculture').

Land Ceiling : 16·18 hectares for a family of five. If the family consists of more than five persons, every person in addition will get 3·23 hectares subject to a maximum of 25·9 hectares.

Irrigation & Power Projects : See the chapter on 'Irrigation and Power Projects'.

INDUSTRIES

Sugar, cotton textiles, edible oils, hydrogenated oil, industrial machinery, machine tools, electrical machinery and electrical accessories, radio sets and transistors, television sets, cycle and cycle parts, foundries, leather tanning and leather goods, woollen textiles, jute textiles, glass and glass products etc.

Small Enterprises : During 1971-72, 3,879 small-scale industrial units were registered with the State Directorate of Industries raising their total number from 967 in 1960-61 to 32,362 in 1971-72. In the sphere of small-scale industries the State now stands third in the country, next only to Punjab and Maharashtra. U.P. State Industrial Corporation has developed 16 industrial areas to promote small industries particularly in backward areas.

Industrial Development Agencies : See chapter on 'State Corporations'.

Industrial Estates : There are 68 estates at present with 2,707 built-in sheds and developed plots. Out of these 2,269 have been allotted and 970 are engaged in production. During 1972-73, the 970 working units in these estates produced goods valued at Rs. 551·8 million and employed over 8,000 persons. Some functional estates catering exclusively to electronic goods, leather goods and electricity goods are also in the offing.

Handloom Industry : There are at present 288,431 registered looms in the State producing 450 million metres of cloth annually and giving employment to 1·2 million people directly and indirectly. The khadi and village industries produced goods valued at Rs. 156·90 million and employed 104,000 persons during 1971-72.

Labour : Total No. of registered factories (1972): 4,337 ; No. of working factories : 4,200 ; Estimated average daily No. of workers employed : 387,991.

Total No. of workers in the State (1971 Census) : 27,334,455 ; Workers as per cent of total population : 30·94 ; Cultivators : 15,697,866 ; Agricultural labourers : 5,453,829 ; Other workers : 6,182,760 ; Non-workers : 61,006,689

No. of Trade Unions as on December 31, 1973 : 1,604.

Industrial Disputes : 247 strikes during 1973 involving, 90,000 workers resulting in a loss of 974,000 man-days.

The industrial lay-offs claimed another loss of 1,116,000 man-days and involved 180,000 workers during 1972. The number of lay-offs was 346 (1970) and 384 (1971).

EDUCATION

Schools 1973-74 : Primary : No. of Primary Schools : 62,486 ; To[illegible] No. of students : 11,912,000 ; No. of boys : 7,305,000 ; No. of girls : 4,607,000 ; No. of Teachers : 247,532.

Secondary : No. of Secondary Schools : 3,793 ; Total No. of Students : 1,193,000 ; No. of boys : 953,000 ; No. of girls : 240,000 ; Total No. of teachers : 50,730.

Colleges : No. of Degree Colleges : 292 ; No. of Students : 118,000 ; No. of Teachers : 7,051 ; Engineering and Degree Colleges : 6 ; Polytechnics : 28 ; Diploma Institutions : 6.

Total Education Budget (1974-75) : Rs. 1,748·90 million.

Universities : With the year of establishment in brackets and the number of students during 1970-71 : Agra University, Agra (1927) 74,156 ; Aligarh Muslim University, Aligarh (1921) 8,000 approximately ; Allahabad University, Allahabad (1887) 8,992 ; Banaras Hindu University, Varanasi (1916) 12,999 ; Gorakhpur University, Gorakhpur (1957) 42,524 ; Kanpur University, Kanpur (1966) 50,000 approximately ; Lucknow University, Lucknow (1921) 26,186 ; Meerut University, Meerut (1966) 50,000 ; Roorkee University, Roorkee (1949) 1,369 ; U.P. Agricultural University, Pant Nagar, Nainital (1960) 1,959 ; Varanaseya Sanskrit University, Varanasi (1958) N.A.

PUBLIC HEALTH

Total No. of Hospitals in 1972-73 : Allopathic : 2,360 ; Ayurvedic/Unani : 1,185/156 ; Homoeopathic 104 ; Beds ; 41,486 ; Doctors registered upto June 30, 1972 : 13,313 ; Doctors in Government service (Allopathic) : 3,520 ; Homoeopaths 25, Vaids and Hakims (registered) : 31,812 ; Vaids and Hakims in Government service : 825 ; Nurses (registered) : 5,187 ; Nurses in Government services : 2,642 ; Mental Hospitals : 3 ; Primary Health centres : 875 ; T.B. Hospitals 14 ; T.B. Clinics 59 ; Total No. of beds in T B. Sanatoria and Clinics : 2,602 ; Leprosy Control Units : 22 ; Government survey, education and treatment units : 90 ; Total No. of beds : 1,803.

Medical Colleges : 9 ; Total No. of seats in Medical Colleges : 808.

COMMUNICATIONS

(As on March 31, 1973) : Vehicles on road under U.P. State Transport Corpn. : Buses 3,297 ; Trucks 199 ; Taxis 41. Vehicles other than Government Roadways : Buses : 6,769 ; Lorries and Trucks including private carriers : 25,832 ; Taxis including contract carriages : 6,677.

Length of Motorable Roads : Total mileage of metalled roads under P.W.D. : 27,901 kms. ; Total route length 151,519 kms.; No. of routes operated : 1,111 ; Daily distance covered (km.) during 1972-73 : 636,845.

Railways : In Uttar Pradesh about 61 per cent of the route mileage is broad-gauge and the rest are metre and narrow gauges. The railway mileage within the State is 15·3 per cent. of the total route mileage of 35,395.

Press : Leading Dailies with their circulation figures.

English : National Herald — Lucknow & Delhi, 46,299 ; Northern India Patrika — Allahabad, 38,283 ; Pioneer — Lucknow, 20,628.

Hindi : Aj — Varanasi, 35,143 ; Amar Ujala — Agra 27,865 ; Bareilly, 11,949 ; Bharat — Allahabad, 12,274 ; Daily Jagran 43,036 ; Jagran — Jhansi, 15,444 ; Gandiva — Varanasi, 12,284 ; Navjivan — Lucknow, 13,774 ; Swatantra Bharat — Lucknow, 23,619.

Urdu : Quami Awaz — Lucknow, 8,909.

GENERAL

Housing : No. of houses constructed till Dec., 1971 : (*a*) Under subsidised Industrial Housing Scheme ; 28,791 ; (*b*) Low Income Group Housing Scheme : 12,071 ; (*c*) Middle Income Group Housing Scheme : 1,756 ; (*d*) Slum Clearance : 7,401.

Important Rivers : The Ganga, The Yamuna and The Ghaghara.

Other rivers : The Gomati, the Gaihai, the Joknai, the Sai, the Ramganga, the Khoh, the Dojora, the Kosi, the Bhakra and the Deotta or Garra.

Minerals : It is the largest silica sand producing State which is 80 per cent of the all-India production. Limestone, silica, magnesite, pyrophillite, fine clay, asbestos, marble, gypsum, sulphur and graphite are some other minerals found in the State. The State has the second largest reserves of limestone in the country — about 7,800 million tonnes out of about 20,900 million tonnes. Limestone is found in Khajrahat in Mirzapur and Dehra Dun and Garhwal districts. Marble suitable for cement manufacture has been found in Lucknow, Barabanki, Unnao, Rae Bareli, Mirzapur and Dehra Dun districts. Copper, Cobalt and iron ore occur at Bundelkhand.

WEST BENGAL STATE

CAPITAL : Calcutta. **Area:** 104 sq. kms. ; **Population:** 3,148,746.

Area of the State : 87.853 sq. kms. ; **Population of the State :** 44,312,011. **Decennial Population Growth Rate** (1961–71) : 27·24 per cent ; **Density :** 504 per sq. km. ; **Sex Ratio** — 892 females per 1,000 males ; **Proportion of Urban Population to Total :** 24·59 per cent ; **Literacy Rate :** 33·05 per cent (Males : 42·84 per cent ; females 22·08 per cent) ; Work participation rate : 28·37 per cent (Males : 48·89 per cent ; Females : 5·36 per cent).

Major Cities (with population over 100,000) : Calcutta (with 74 constituent units) 7,005,362 ; Durgapur, 207,232 ; Kharagpur 161,911 ; Asansol, 157,388 ; Burdwan, 144,970.

No. of Villages : 38,550.

State Boundaries : The State is bound by Sikkim and Bhutan in the north, Assam and Bangla Desh in the east, Bay of Bengal in the south and Orissa, Bihar and Nepal in the west.

State Languages : Bengali and English.

Districts	Headquarters	Area in sq. kms.	Population
Darjeeling	Darjeeling	3,005	781,777
Jalpaiguri	Jalpaiguri	6,233	1,750,159
Cooch-Behar	Cooch-Behar	3,339	1,414,183
West Dinajpur	Balurghat	5,365	1,859,887
Malda	English Bazar	3,713	1,612,657
Murshidabad	Berhampur	5,324	2,940,204
Nadia	Krishnagar	3,922	2,230,270
24 Parganas	Alipur	13,767	8,449,482
Howrah	Howrah	1,489	2,417,286
Calcutta*	Calcutta	104	3,148,746
Hooghly	Chinsura	3,148	2,872,116
Burdwan	Burdwan	7,035	3,916,174
Birbhum	Suri	4,552	1,775,909
Bankura	Bankura	6,884	2,031,039
Midnapur	Midnapur	13,618	5,509,247
Purulia	Purulia	6,256	1,602,875

AGRICULTURE : Rice and Jute are the main crops produced in West Bengal. The area sown under rice is

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* Calcutta district comprises of Calcutta city only.

5.07 million hectares and under jute is 0.419 million hectares; and the production is 5.71 and 2.955 million tonnes respectively (1972-73).

Land Ceiling: The ceiling for a family consisting of not more than 5 members is 5·001 hectares in irrigated areas and 7·006 hectares in non-irrigated areas. The retainable limit is increased by 0·502 hectare in irrigated and 0·697 hectare in non-irrigated area for each additional member in excess of 5, the maximum retainable area being 7·006 hectares in irrigated and 9·809 hectares in non-irrigated areas for a family consisting of 9 members or more. The ceiling for an adult unmarried person or the sole surviving member of a family is 2·502 hectares in irrigated and 3·503 hectares in non-irrigated areas.

Forests: Total forest area of West Bengal comprises of 13·4 per cent of the total geographical area of the State.

The types of timber found in the forests are: *Shorea robusta, tactona grandis, michelia champaka, schima walliohi, Chukrasia tabularis, betula species, abies, densa, oaks, pinus,* etc.

Irrigation: Area irrigated by Govt. canals under the minor, major and medium irrigation schemes of West Bengal was 0.810 and 0.765 million hectares in the year 1971-72 and 1972-73 respectively. (For details see Chapter on 'Irrigation & Power'.)

Power Production: Electricity generation in 1971-72 showed a slight rise over 1970-71. The total quantity of electricity generated in 1971-72 was 5,390 million kwh as against 5,339 million kwh in 1970-71. (For details see Chapter on 'Irrigation & Power'.)

INDUSTRIES: The State's industrial output is about 20 per cent and coal output about 30 per cent of the country's total.

The number of registered working factories increased from 5,612 in 1970 to 6,004 in 1971.

Production: The following are the names of some of the major industries and their production during 1972: Jute Textiles — 1·11 million tonnes; Cotton Yarn — 27·5 million kgs.; Cotton Cloth — 111·9 million metres; Pig Iron — 1·53 million tonnes; Steel Ingots — 1·39 million tonnes; Finished Steel (excluding unregistered re-rollers) — 0·94 million tonnes; Tea — 106·9 million kgs.; Sugar — 3·8 thousand tonnes; Paper & Paper Board — 131·3 million kgs.; Matches — 6·6 million gross boxes; Vanaspati—5·7 million quintals; Electric Fans — 1,221·9 thousand Nos.; Sewing Machines — 227·8 thousand Nos.

Small Scale Industries: The number of Small Scale Industrial Units which voluntarily registered with the Directorate of Cottage & Small Scale Industries rose to 36,139 in 1972-73 from 24,712 in 1971-72. Under the Rural Industries Project Programme, initiated by the Planning Commission, more than 2,000 small industrial units were opened in the State during 1973.

INDUSTRIAL DEVELOPMENT AGENCIES

West Bengal Industrial Development Corporation Ltd. (23/A, N. Subash Rd., Calcutta 700001).

West Bengal Financial Corporation (4, Kiron Sankar Roy Rd., Calcutta 700001).

West Bengal Small Industries Corporation Ltd. 6A, Raja Subodh Mullick sq., Calcutta 700013.

West Bengal State Warehousing Corporation (45, Ganesh Chandra Avenue, Calcutta 700016).

Besides these the **Industrial Finance Corporation of India** (Burmah-Shell House, Connaught Circus, Annexe II, New Delhi 100001, having its branch office in Calcutta); the **Board of Industries,** under the **Cottage and Small-Scale Industries Department,** West Bengal; **State Bank of India; Life Insurance Corporation of India; National Small Industries Corporation of India; Industrial Reconstruction Corporation of India** (having headquarters in Calcutta) etc. also accord financial assistance to Industrial units.

LABOUR (1972): The average daily number of workers in the registered working factories increased to 830,700 in 1972 as compared to 808,500 in 1971.

Average No. of employees under different heads: Factories: 808.500; Coal Mines: 96,000; Plantations: 215,000; State Govt.: 296,000; Central Govt.: 410,000; Quasi Govt.: 322,000; Other Sectors: 408,000. People in agriculture: (Cultivators & Agricultural Labourers) 7,227,108 (1971 census).

Employment Exchange: The total number of persons placed in employment during 1972 was 25,600 against 20,100 in 1971. During the year 1972, 811,665 applicants were registered at the different Employment Exchanges as against 555,835 in 1971 showing, thereby, an increase of 255,830 or 46.0 per cent over the previous year.

No. of Unions (1972): No. of unions registered—982; membership — 83,377.

Accidents (1972): Fatal — 91 and Non-fatal—80,000 (Approx.).

Industrial Disputes (1972): Number of disputes brought forward from previous year — 3,748. Number of disputes raised during the year — 8,181. Number of disputes disposed of during the year — 8,070. Number of mandays lost — 3,707,120.

EDUCATION

	No. of Schools (1971-72)	
Primary	35,484	
Middle	2,827	
High	2,078	
Higher Secondary and Multipurpose	2,055	
No. of Universities	7	1969
No. of Colleges—Constituent	24	
Affiliated	283	
No. of Polytechnics	29	
No. of Medical Colleges	6	

Universities: The following are the names and addresses of the universities with number of students respectively; *University of Burdwan,* Rajbati, Burdwan 713101; 36,067; *University of Calcutta,* Senate House, Calcutta 700012; 196,257; *Jadavpur University,* Calcutta 700032; 4,760; *University of Kalyani,* Kalyani 741235; 2,074; *University of North Bengal,* Rajaram-Mohanpur, Darjeeling; 26,191; *Rabindra Bharati University,* 6/4, Dwarkanath Tagore Lane, Calcutta 700007; 3,854; *Visva-Bharati,* Santiniketan 731235; —.

PUBLIC HEALTH (1972): No. of Hospitals — 298; No. of beds — 35.466.

No. of C[illegible]cs — 687; No. of beds — 51.

No. of Health Centres — 814; No. of beds — 6,108.

No. of Dispensaries — 435.

Family Planning Centres: (1973): Rural: 326; Urban: 102.

Communications (1972-73):

	Route length (Km)	No. of vehicles in operation	Average No. of persons employed per day	Total passengers served ('000)	Total earnings Rs. in ('000)
Calcutta State Transport Corporation	491	1,228	12,170	337,600	54,098
North Bengal State Transport Corporation	18,560	256	4,024	22,391	20,830
Durgapur State Transport Board	1,801	41	856	6,700	2,553

Calcutta Tramways Company Ltd.: During 1972-73 the number of passengers carried by tram cars was 270·800 and total earnings stood at Rs. 34·2 million.

Roads: Total length of extra-municipal roads maintained by Public Works Department and Local Bodies and roads constructed under Community Development & National Extension Service Blocks is 59,826 kms.

The length of extra-municipal roads maintained by PWD — 15,255 kms. (12,967 kms. as surfaced and 2,288 kms. as unsurfaced) in 1973.

Press: Leading dailies with their circulation figures (July-Dec. 1973).

English : Amrita Bazar Patrika 103,194 ; Hindustan Standard 54,667 ; Statesman (Calcutta and New Delhi) 185,633.

Bengali : Ananda Bazar Patrika 298.554 ; Jugantar 180,434.

Hindi : Sanmarg 27,860.

GENERAL : Rivers : The Ganga, the Damodar, the Bhagirathi, the Hooghly, the Mayurakshi, the Rupnarayan, the Ajoy, the Kasai, the Teasta and the Torsa.

Housing: Number of houses constructed under different schemes and expenditure incurred upto 1973 respectively were : plantation labour housing : 2,718 ; Rs. 16.83 million ; low income group housing : 8,184 ; Rs. 9.71 million ; slum clearance : 5,316 ; Rs. 36.32 million.

HOUSING

BACKGROUND : A 1971 estimate revealed there were 93 million dwelling units in India to house 548 million people. These included 12 million dilapidated units which needed to be repaired before occupation.

The total requirement of housing units, in addition to the existing, was placed at 24·10 million — 5·50 million in urban areas and 18·60 million in rural areas. The annual increase in population demands another 2 million units every year whilst the rate of construction is only 1·30 million units including semi-pucca and thatched huts.

Shortage : According to another estimate made by the National Buildings Organisation, on the basis of 1961 position and projections thereafter, it was estimated that the housing shortage was approximately 21 million dwelling units — 18 million in rural areas and 3 million in urban areas.

Rate of Construction : The annual rate of construction is estimated at 1·15 million units — 0·50 million units in urban areas and 0·65 million units in rural areas.

House Sites : It is estimated there are 12 million landless labourers who do not possess any land on which to build a house.

The Problem : In the last decade there has been a large influx into urban areas. Six of the eight large urban agglomerations, each having more than a million population, recorded between 43 per cent and 54 per cent increase in population during 1961-71.

Towns with population of 100,000 recorded a 62 per cent increase during the same period. Whilst on an all India basis the urban population increased at the rate of 38 per cent.

Growth of population in larger urban centres in India

Urban Centres	Population in 1971 (in millions)	Increase over 1961 (in percentage)
Calcutta	7·01	19·7
Gr. Bombay	5·97	43·8
Delhi	3·63	53·9
Madras	2·47	42·9
Hyderabad	1·80	42·5
Bangalore	1·65	43·0
Ahmedabad	1·59	44·8
Kanpur	1·27	31·1
Population of cities of more than 100,000 population in India ..	56·86	61·9
Total urban population in India..	109·09	38·2

Overcrowding: The influx into urban areas has caused an acute shortage of housing facilities, resulting in overcrowding.

The average number of persons per room in some growing cities of Maharashtra for the years 1961 and 1971 are given in the table on next page. The comparative figures for other cities of India are not available.

Cities	Average No. of persons per room 1961	1971
Gr. Bombay	3·72	3·99
Thana Ulhasnagar	2·89	3·07
Pune	2·95	3·21
Nasik	2·72	3·06
Aurangabad	3·05	2·90

Household Incomes: Family incomes, naturally, play a great part in a family's ability to acquire or afford a home. Incomes of families in urban areas are much higher than families in rural areas. For instance in Greater Bombay 56 per cent families have an income of less than Rs. 350 a month and 28 per cent less than Rs. 600 a month.

In the Asansol Industrieal area of West Bengal 80 per cent families earned less than Rs. 350 a month and 19 per cent less than Rs. 600.

Household Expenditure: It is observed that an increasing amount of a family's income goes towards the purchase of food alone. A low income family's inability to pay for shelter can be seen from the expenditure pattern of the various income groups compiled by the Town and Country Planning Organisation, New Delhi. The survey covers South Delhi and is deemed to be representative for all major urban areas of the country.

Annual Income Groups	Av. Income per household in Rs.	Total expenditure in Rs.	Expenditure as % of income	Expenditure on food as of total expenditure
Less than Rs. 2,500	1,996	2,190	109·7	72·2%
Rs. 2,501 — 5,000	3,900	3,683	94·4	68·2%
Rs. 5,001 — 7,500	6,288	5,302	84·3	62·9%
Rs. 7,501 — 20,000	8,854–17,625	6,124–9,109	69·2–51·7	60·5–52·3%
Rs. 20,000	22,303–48,658	10,335–14,620	46·3–30·0	48·3–46·6%

HOUSING SCHEMES: These schemes fall under two sectors — Central and State. Following are the details of some of the important schemes.

(a) Central Sector Schemes: *Scheme for Provision of House-sites to Landless Workers in Rural Areas:* The scheme provides for 100 per cent grant assistance to State Governments to develop house-sites and acquire land. The maximum size of a house-site to be allotted to a landless family is not to exceed 83.613 square mtrs. Upto 1973-74 about 1,399 projects were approved. These will provide 702,079 house-sites at a cost of Rs. 171·40 million. Of these projects 81,900 house-sites had been developed.

Subsidised Housing Scheme for Plantation Workers: This scheme was transferred from the State to the Central Sector in 1970. The Central Government provides 50 per cent loan and 37·5 per cent grant for construction of homes to be occupied by the plantation workers free of rent.

Up to the end of December, 1973, only 10,917 houses had been sanctioned and 2,879 houses completed since the scheme came into effect in 1956.

(b) State Sector Schemes: Under the various schemes in this sector 581,192 houses had been sanctioned and 433,774 completed up to December 31, 1973. The break-up is as follows :—

Integrated Subsidised Housing Scheme for Industrial Workers and Economically Weaker Sections of the Community: Projects for the construction of 238,381 houses at a cost of Rs. 1,009·30 million were sanctioned of which 179,986 were completed up to December, 1973.

Low Income Group Housing Scheme: The scheme provides for loan assistance up to 80 per cent of the approved cost of a house subject to a maximum of Rs. 14,500, to persons whose annual income does not exceed Rs. 7,200. Construction of 190,169 houses at a cost of Rs. 1,160·80 million had been sanctioned of which 148,149 houses were completed up to December, 1973.

Village Housing Projects Scheme: Under this scheme loans are granted to villagers for construction of a house to the extent of 80 per cent of the cost or a maximum of Rs. 4,000. Loans are also granted to improve the environmental hygiene of the village. Up to December, 1973, loans worth Rs. 165·60 million were sanctioned and 52,820 houses were completed. In addition 240·70 kms. of streets and 187·66 kms. of drains were completed at a cost of Rs. 218·70 million.

Middle Income Group Housing Scheme: Loans are given to individuals earning between Rs. 7,201 — Rs. 18,000 per annum. Loans are restricted to 80 per cent of the cost of construction subject to a maximum of Rs. 27,500. Up to December, 1973, loans for the construction of 39,844 houses were sanctioned of which 30,253 houses were constructed.

Rental Housing Scheme for State Government Employees: Construction of 27,800 houses were sanctioned and 22,566 were completed upto December, 1973.

Land Acquisition & Development Scheme: Financial assistance is given to States for large scale acquisition and development of land to make plots available at reasonable prices to house builders and providing civic amenities. About 25,654.26 hectares of land had been sanctioned for acquisition and development. Of this 10,958 hectares had been acquired and 5,898.7 hectares developed.

Slum Clearance/Improvement Scheme: The scheme was introduced into the the Central Sector in May, 1956 and transferred to the State sector on 1st April, 1969. Central assistance is now provided to State Governments. Under the scheme 706 projects were approved at a total cost of Rs. 200·40 million up to December, 1973.

(c) House Building Allowances to Central Government Employees: From April, 1973 to August, 1973, 4,450 applications for advances amounting to Rs. 104·41 million were approved. A total ban on these advances has been imposed by the Central Government since August, 1973.

Since the inception of this scheme in 1956 till August 1973, 28,927 applications amounting to Rs. 501·78 million were approved.

Research: *National Buildings Organisation,* Nirman Bhavan, Maulana Azad Rd., New Delhi 110011 is engaged in documentation and dissemination of information on building science and technology to bring about improvement in quality of building construction and reduction in cost.

Some Public Sector Undertakings:

Hindustan Housing Factory Ltd., Jungpura, New Delhi 110014.

National Buildings Construction Corporation Ltd., 44, Ring Rd., Lajpat Nagar III, New Delhi 110024.

Housing & Urban Development Corporation Ltd., 12-A, Jamnagar House, New Delhi 110011.

ANIMAL HUSBANDRY

INDIA has about one-half of world's buffaloes, one-fifth of world's cattle and one-sixth of world's goat population. Animal Husbandry has an important role in national economic life as a principal source of draught power for agricultural operations and transport, especially in the rural areas, and as a major source of supply of protective foods like milk, eggs, meat, etc. It contributes about 7.0 per cent to the **net national product.** The country also earns foreign exchange of about Rs. 700 million from the export of hides and skins, wool and certain other animal products.

Census — The last census was taken in 1972. Excluding Assam, Manipur and Tamil Nadu and the Union territory of Arunachal Pradesh for which information has not yet become available, livestock population (excluding poultry) in the rest of the country was 322.4 million. In 1966, the total livestock in the country was estimated at 343.9 million.

The break-up of the above figures for 1972 is: Cattle — 162.1 million; sheep — 34.7 million; goats — 62.3 million; Buffaloes — 54.8 million; Horses and ponies — 1.1 million; Pigs — 5.2 million; camels — 1.1 million and other livestock 1.1 million. Poultry makes up an additional 112.8 million.

Meat Production : There are 1,280 slaughter houses in the country and nearly 39.4 million animals are slaughtered annually. About 1.88 per cent of cattle, 1.76 per cent of buffaloes, 94.57 per cent of sheep and goats and 1.79 per cent of pigs are slaughtered.

The annual production of various meats in million tonnes amounts to: 0.23 goats; 0.17 sheep; 0.06 beef; 0.09 buffaloes; 0.03 pigs and 0.08 other meat (pork, gland etc.) Total production is 0.66 million tonnes valued at Rs. 1,200 million.

CATTLE : The best Indian cattle breeds are found in the Punjab, Rajasthan, Saurashtra, parts of Maharashtra, Tamil Nadu, Karnataka and Andhra Pradesh. In the eastern parts of the country and in the coastal areas, the animals are non-descript and are poor milk yielders. This inferior stock is found in Assam, West Bengal, Orissa and Kerala. The Indian breeds of cattle are classified as milch breeds, draught breeds and general utility breeds.

Milch Breeds : Sahiwal, Gir, Red Sindhi and Deoni are some of the outstanding breeds of this group. The Sahiwal yields between 2,725 and 3,175 kgs. of milk in a lactation period of 300 days. The average yield of Gir is 1,675 kgs. The average milk yield of Sindhi and Deoni varies from 1,135 to 1,725 kgs.

Draught : Cows of these breeds are poor milk yielders but the bullocks are excellent draught animals. About 42 per cent of the cattle in the country are draught animals. The Amritmahals and Hallikar (Karnataka) are the well-known draught breeds of India. Other important breeds are Malvi (Madhya Pradesh), Nagori (Rajasthan), Kenketha and Ponwar (Uttar Pradesh), Bahaur (Bihar), Bargur, Kongayam (Tamil Nadu) and Khillari (Maharashtra).

General Utility Breeds : These breeds are dual purpose animals. The cows are fairly good milk yielders and the bullocks are good for draught purposes. Hariana (Haryana and Delhi); Kankrej and Tharparker (Gujarat and Rajasthan), Ongole (Andhra Pradesh), etc., which give about 1,500 to 2,000 kgs. of milk in the lactation period are some of the well-known breeds of this type.

Cattle Breeding : The Intensive Cattle Development Projects (ICDPs), initiated during 1964–65 in the milk shed areas of major dairy plants for increasing milk production, have further intensified their activities. In addition to 55 ICDPs (including four in the Central Sector) already in operation, seven more projects one each at Warangal (Andhra Pradesh), Darbhanga (Bihar), Banaskantha (Gujarat), Ambala (Haryana), Sambalpur (Orissa) and West Dinajpur and Malda (West Bengal) were taken up during 1973–74.

Further, the coverage under the Key Village Scheme for development of cattle was further extended. In addition to 549 already functioning, 72 new Key Village Blocks were set during 1973–74.

Development work has made further progress at the Central Cattle Breeding Farms at Suratgarh (Rajasthan) for Tharparkar breed, Ankleshwar (Gujarat) for Surti buffaloes and Chiplima (Orissa) for Red Sindhi breed. Three more Central Cattle Breeding Farms are being set up at Alamadhi (Tamil Nadu) for Murrah buffaloes, Koraput (Orissa) for Jersey breed and at Andeshnagar (Himachal Pradesh) for Holstein Friesian breed.

The **Central Jersey Cattle Breeding Farm** at Hessarghatta (Bangalore) has been completed and from this farm, 209 Jersey bull-calves have been distributed so far to various States/Union Territories and private institutions for cattle development work.

The **Central Frozen Semen Bank** at Hessarghatta has commenced supplying frozen semen to the neighbouring States and also to Dhir Krishi Mandal Society, Vadodara.

For intensifying the **cross breeding programme,** import of exotic cattle is allowed for distribution to the State Farms, Agricultural Universities and Research Institutions. Under the Colombo Plan, 352 exotic cattle of Jersey and Friesian breeds were received from Australia and 42 exotic bulls from New Zealand and distributed to various States for their cross breeding programme. In addition, 750 exotic cattle of Jersey and Friesian breeds were purchased and imported from New Zealand, Denmark and the U.S.A. through the Indian Dairy Corporation.

With the assistance of the Food and Agriculture Organisation and Danish International Development Agency (DANIDA), 5 frozen semen stations, one each at Karnal (Haryana), Indore (Madhya Pradesh), Amritsar (Punjab), Lucknow (Uttar Pradesh) and Bangalore (Karnataka), are being set up. About .125 mill. doses of frozen semen will be supplied by the F.A.O. Bulk of assistance in the form of equipment will be available through DANIDA.

Under the Indo-Swiss Project, a brown Swiss herd has been set up at Munnar (Kerala) and Patiala (Punjab).

Central Regional Stations for Forage Production and demonstration have been set up at three Stations, *viz.*, Hissar (Haryana), Kalyani (West Bengal) and Dhamrod (Gujarat). They produced over 460 quintals of seeds of improved varieties of different fodder crops for distribution to the State agencies for further multiplication and distribution as also demonstration in farmers' fields. It is proposed to start another Grassland and Fodder Development project with the assistance of UNDP Special Fund from April, 1974 for a period of 4 years.

Buffaloes : There are about seven indigenous standard breeds of buffaloes. They are the Murrah of Haryana, the Jaffarabadi (Saurashtra region), Surti (Kaira, Anand and Nadiad districts) and Mehsana (Mehsana district) of Gujarat, Nagpuri of Maharashtra, Nili-Ravi of Punjab and Bhadawari of Uttar Pradesh. The average yield of milk in a single lactation period (which varies from 250–300 days) is 1,360–2,270 kgs. in the case of Murrah, 1,655 kgs. in the case of Surti, 1,360–1,825 kgs. in the case of Mehsana and 1,585 kgs. in the case of Nili-Ravi.

Average Yield : The average annual yield of a buffalo is 504 kgs. as against 157 kgs. of the cow. Besides, buffalo milk is one and a half times richer in fat content and is thus more suited for butter and ghee production. A buffalo is far less expensive than a cow.

Sheep: India has a large sheep population of 40–42 million which is in the hands of poor farmers and nomadic shepherds. Most of the sheep are concentrated in the arid zones with low rainfall and poor agriculture where they form a major source of livelihood for the people. The productivity of most of the sheep-stock is low in terms of wool and mutton. The average annual yield of wool per sheep in India is only 700 grams as against 5–7 kilograms in the case of some of the exotic breed of sheep. As regards mutton, the average weight of sheep in the country varies from 25 to 30 kgs. The exotic sheep weigh as much as 3 times this figure.

Wool : India produces over 30 million kgs. of wool annually with 36 per cent of this coming from Rajasthan alone. The bulk of the wool produced is coarse and is used largely in the manufacture of carpets, druggets and coarse blankets. At present, wool worth Rs. 210 million (generally of superior quality) is being imported to feed the woollen textile industry.

Breeding : Sheep development involves cross-breeding of indigenous sheep using imported strains of merino type sheep such as Rambouillett stavrovol, etc., for improving wool quality and quantity. It also aims at improving both mutton and wool quality by cross-breeding with imported dual purpose sheep like Corriedale. This cross-breeding programme was initiated in 1970 and is being continued. Over 5,000 exotic sheep have so far been imported and located in different States.

At the Indo-Australian Central Sheep Breeding Farm, Hissar, during 1972–73, 60 Corriedale rams were received from Australia. The farm has already started issuing stud rams to various institutions for breeding trials.

The Centrally sponsored large sheep breeding farm have been set-up at Mamidipally (Andhra Pradesh), Challakeri (Karnataka) and Daksum (Jammu & Kashmir). Establishment of two more sheep breeding farms — one at Bhainsora (Uttar Pradesh) and another at Fatehpur (Rajasthan) have also been sanctioned.

A project for sheep shearing, wool grading and marketing has been taken up in 8 States with the assistance of UNDP.

During 1973–74, 1,222 Merino type sheep have been imported from the USSR for Gujarat, Jammu and Kashmir and Uttar Pradesh for further propogation and building up of foundation-stocks. It is programmed to import about 2,000 corriedale sheep during 1974–75 and 1975–76.

Goats : Goats constitute an important source of animal protein and account for 32 per cent of the country's total meat production. Besides meat, goats supply milk, skin, Mohair and Manure. Goats are found all over the country. In Rajasthan, their number exceeds 12,000 and in Uttar Pradesh, Bihar and Madhya Pradesh — they are within the range of 6 to 8 thousand.

The important breeds are the Himalayan goats found in Jammu and Kashmir, Himachal Pradesh, Punjab and Uttar Pradesh, which yield high quality hair.

The pashmina goat is a unique animal with quick movement and is found in large number in Himalayan and Tibetan plateau, Gilgit and parts of the Lahul and Spiti valleys. They yield good quality hair, meat and milk. The yield of hair varies from 21 to 50 grams per goat. The yield of milk per goat is estimated at 225 grams per day.

Jamunapari goat is a dual purpose animal capable of yielding both meat and milk of good quality. Nannies raised for milk production yield 363–544 kgs. of milk (fat content 3.5 per cent) in a lactation period of 250 days. In Uttar Pradesh, this breed is reported to give a maximum yield of 4.85 kgs. daily.

POULTRY: There are only 26 chickens per 100 persons in India as against 540 in Denmark and 373 in Canada. The annual laying capacity of an Indian hen is about 60 small eggs in a year as against 180 large eggs of the American (exotic) breeds like White Leghorn.

The production of eggs in the country has risen substantially from 5,300 million in 1968–69 to 7,703 million in 1973–74. However, the availability of eggs in India is estimated at only 12 per person per year as against 295 in U.S.A., 282 in Canada and 249 in West Germany. The annual per capita availability of poultry meat too is low, being estimated at 131 grams in India as compared with 13.18 kilograms in U.S.A. and 2.47 kilograms in a number of European countries.

Development : The development of poultry in India has received considerable attention during the last two decades. A modest beginning was made in the First Five Year Plan with the launching of a pilot project with 33 extension centres. During the Second Five Year Plan, a comprehensive All-India Poultry Development Project was launched under which 5 Regional Poultry Farms were established in different agro-climatic regions. These farms aimed at production and propagation, in the respective regions of acclimatised birds and training of officers and farmers. Through the assistance of TCM, a wide range of equipment and a consignment of 30,000 chicks of White Leghorn and Rhode Island Red breeds were imported to provide the necessary support to the project. Besides, 300 Poultry Extension-cum-Demonstration Centres were also established in different parts of the country to introduce modern poultry farming in rural areas.

In the Third Five Year Plan, seventy-seven Intensive projects closely linked with hatcheries, food mixing units, marketing centres and extension organisations were established and all the required inputs and services, including credit requirements were made available to the farmers. The Regional and State Poultry Farms were expanded. Two processing units, 68 feed mills and 18 marketing centres were also set up.

Many companies have come into existence to manufacture the entire range of equipment required for the poultry industry.

In the Fourth Plan, 28 Intensive Egg and Poultry Production-cum-Marketing Centres and 19 new Poultry Breeding Farms were expected to have been established.

The Government of India have launched a **scientific poultry breeding programme** at 29 central and State Government's poultry farms. To measure the genetic gains achieved from year to year as a result of this programme, the stocks developed at these farms are being tested at the Random Sample Laying Test Unit, at Hessarghatta, Bangalore. The performance of the stocks evolved at these farms have been highly commendable. The I.C.A.R. has also taken up two coordinated poultry breeding projects "Poultry for Eggs" and "Poultry for Meat". Some pure line stocks have already been imported from U.S.A., the Netherlands, Israel, Australia and Japan. These projects aim at development of in-bred lines for subsequent hybridisation. The Central farms are expected to produce about 2·3 million eggs and distribute about ·35 million high producing stock for breeding purposes to the State Poultry Farms and private poultry farmers.

Vaccine Imports : 10 million doses of Marek's Disease vaccine is being imported through the State Trading Corporation. This will be used for the protection of stocks both at the Government and commercial poultry farms in the country.

Plan Target : The target during the Fifth Plan is to achieve a production of 12,440 million eggs in 1979, thus visualising a growth rate of about 10 per cent per annum over the production achieved in 1973–74. Major contribution in this regard is expected from commercial farms. The population of improved hens is expected to grow to 60 million from the estimated 24 million by the end of the Fourth Five Year Plan.

Piggery : In India, a pig is an important source for the supply of protein rich meat. However, at present it contributes only 5 per cent to the country's total meat production. Seven bacon factories (one each in Andhra Pradesh, West Bengal, Bihar, Kerala, Maharashtra, Rajasthan and Uttar Pradesh have been established to provide marketing facilities to the farmers for the exotic pigs produced by them.

The model piggery at Gannavaram (Andhra Pradesh) continues to supply piggery stock of exotic pigs to other states, universities and other institutions for taking up pig breeding programme. Special efforts are being made to take up piggery programmes in the North-Eastern States where pork is a very popular item in the diet of the people. Efforts are also being made to import pigs from foreign countries to infuse new blood in the breeding stock available in the country. Only 20 foreign pigs were imported during 1973 as against 130 in 1968 and 179 in 1964.

DAIRY INDUSTRY

MILK and milk products contribute about Rs. 9,884 million to the national income. Of the 225 million cattle and buffaloes, only 77 million or 38 per cent are milch animals. Besides, the milk yield is low : 157 kgs. a year in the case of a cow and 504 kgs. a year in the case of a buffalo. The highest average daily milk production per animal in milk both for cows and buffaloes is in Punjab which is only 2.28 kgs. and 3.99 kgs. per day repectively. The average annual milk production per cow is 4,154 kgs. in USA, 3,950 in U.K. and 3,902 kgs. in Denmark.

Gross production of milk is 23.10 million tonnes of which 14.8 million tonnes is marketed, the balance is used for home consumption or feeding calves.

Per capita consumption : The per capita consumption of milk and milk products varies from state to state. The average works out to 5.5 oz.

The present per capita availability of milk in 1973-74 is estimated at around 108 grams (3.8 oz.) per head.

The total number of dairy plants in operation increased from 132 units in 1972-73 to 141 units in 1973-74, comprising 79 liquid milk plants, 12 milk product factories and 50 pilot milk schemes/rural dairy centres. Besides, 31 dairy products including some dairy schemes being developed into full-fledged unit were in different stages of implementation.

The average daily throughput of milk of all the dairy plants during 1973-74 was lower at 2.78 million litres as compared to 2.9 litres during the previous year.

Measures are being taken to increase the number of milk plants in operation to 110 by the end of 1974-75. Similarly, 22 milk product factories would be in operation in 1974-75.

Co-operatives are playing a significant role in dairy development in the country. About 35 plants are in the co-operative sector. In many States, co-operatives constitute a major source of supply of milk to the dairy plants. The pioneering work done by the **Kaira District Co-operative Milk Producers' Union,** Anand, is being emulated widely.

The average daily production of milk powder and infant food is about 85 tonnes. The following table indicates the licensed capacity and production of different milk products during 1972.

	(tonnes)	
Products	Annual licensed capacity	Production during 1972
Milk powder ..	34,618	11,000
Infant Milk Food ..	34,887	19,856
Malted Milk ..	22,615	12,430
Condensed Milk ..	19,860	9,100

Butter and ghee production amounts to about 40 tonnes a day.

List of Main Dairy Plants in Operation (as on 1-1-1974)

State/Union Territories	Dairy Plants	Targetted capacity (in litres)	Throughput 1973–74
1	2	3	4
Andhra Pradesh	Hyderabad	50,000	67,633
	Kurnool	2,000	500
	Nellore	5,000	2,791
	Visakhapatnam	10,000	4,083

List of Main Dairy Plants in Operation—(*Contd.*) (as on 1-1-1974)

State/Union Territories	Dairy Plants	Targetted capacity (in litres)	Throughput 1973–74
1	2	3	4
Andhra Pradesh—(*contd.*)	Chittoor	10,000	3,322
	Rajamundri	10,000	6,818
	Warangal	6,000	3,923
	Vijayawada (MPF)	125,000	57,800
Assam	Gauhati	10,000	6,349
Bihar	Bhagalpur	1,000	363
	Gaya	8,000	1,050
	Patna	10,000	9,062
	Ranchi	6,000	2,270
	Barauni (Creamery)	2,000	800
	Barauni Milk Powder Factory	100,000	7,890
	Darbhanga	6,000	1,200
Chandigarh	Chandigarh	20,000	34,645
Delhi	Delhi Milk Scheme	300,000	281,900
Gujarat	Rajkot (M.P.F.)	45,000	9,660
	Mehsana (M.P.F.)	350,000	178,334
	Anand (M.P.F.)	500,000	365,521
	Ahmedabad	100,000	153,747
	Jamnagar	6,000	4,950
	Bhavnagar	4,000	3,500
	Surat	50,000	47,612
	Vadodara	100,000	72,175
	Junagadh	6,000	1,760
	Broach	10,000	5,000
Goa	Ponda	10,000	3,785
Haryana	Jind (M.P.F.)	50,000	23,124
	Bhivani (M.P.F.)	15,000	6,450
	Ambala	20,000	7,500
Himachal Pradesh	Mandi	10,000	4,212
Jammu & Kashmir	Srinagar	10,000	1,630
	Jammu	10,000	3,206
Karnataka	Bhadrawati	10,000	3,347
	Bangalore	50,000	73,257
	Kudigee	4,500	1,846
	Hubli Dharwar	10,000	11,268
	Belgaun	10,000	3,646
	Mangalore	10,000	5,153
	Devangree	6,000	350
	Mysore	10,000	3,234
	Gulbarga	10,000	2,905
Kerala	Calicut	6,000	5,491
	Trivandrum	6,000	7,180
	Ernakulam	10,000	3,109
	Palghat	6,000	4,260
	Kottayam	6,000	3,414

List of Main Dairy Plants in Operation—(*Contd.*)

(as on 1-1-1974)

State/Union Territories	Dairy Plants	Targetted capacity (in litres)	Throughput 1973-74
1	2	3	4
Maharashtra	Dhulia	80,000	78,571
	Bombay	600,000	532,221
	Kolhapur	10,000	23,800
	Nasik	12,000	8,598
	Nagpur	20,000	20,542
	Pune	100,000	57,780
	Sholapur	10,000	9,300
	Miraj (M.P.F.)	40,000	22,278
	Aurangabad	5,000	4,648
Manipur	Imphal	4,000	1,200
Madhya Pradesh	Indore	20,000	7,978
	Jabalpur	10,000	1,376
	Bhopal	10,000	7,469
	Gwalior	10,000	2,727
Orissa	Cuttack	6,000	1,116
Punjab	Amritsar (M.P.F.)	65,100	36,969
Pondicherry	Pondicherry	10,000	11,100
Rajasthan	Jaipur	20,000	14,273
Tamil Nadu	Coimbatore	16,000	15,670
	Kodaikanal	1,000	1,500
	Madurai	50,000	30,045
	Madras	73,000	93,950
	Kanyakumari	3,000	6,121
	Tiruchirapalli	16,000	6,100
	Tanjavur	16,000	4,988
	Chidambaran	5,000	416
Tripura	Agartala	5,000	1,213
Uttar Pradesh	Agra	6,000	1,415
	Allahabad	5,400	973
	Almora	3,000	167
	Haldwani	3,000	2,099
	Mathura	10,000	2,093
	Lucknow	40,000	21,988
	Dehra Dun	20,000	1,750
	Varanasi	1,800	920
	Gorakhpur	10,000	460
	Kanpur	50,000	18,378
	Aligarh	1,000 kg. fat	677 kg. cream
	Moradabad (M.P.F.)	55,000	24,330
	Bareilly	6,000	—
West Bengal	Calcutta	200,000	179,556
	Durgapur	55,000	11,478
	TOTAL	3,814,800	2,781,258

Schemes Under Implementation

Dimapur; Jorhat; Shillong; Siliguri (Milk Product); Agartala (2nd Dairy); Bokaro (Dhanbad); Berhampur (Orissa); Raipur (Madhya Pradesh); Ujjain; Ludhiana; Bhatinda (Milk Product); Hoshiarpur (Milk Product); Rohtak; Simla; Ajmer; Jodhpur; Vishakhapatnam (2nd Dairy); Allepey (Kerala); Quilon; Cannanore; Trichur; Banaskantha; Sabarkantha (Milk Product); Calcutta (2nd 'Dairy); Delhi; Madras; Bombay.

Indian Dairy Corporation (See Government Corporations also.)

Pilot Milk Schemes Rural Dairy Centres

Assam	Jorhat	1,100
	Garampani	—
Himachal Pradesh	Nahan	760
	Simla	415
	Kangra	2,000
Madhya Pradesh	Shivpuri	440
	Datia	375
	Mandsur	360
	Burhampur	580
	Bilaspur	530
	Khandva	430
	Katni	203
	Raipur	379
	Ratlam	450
	Rewa	420
	Sagar	439
	Ujjain	850
	Raigarh	350
	Durg-Rajnandgaon	630
	Dhamtari	152
	Chhindwara	750
	Damoh	800
	Seoni	130
	Satna	160
	Hoshangabad-Itarsi	560
	Vidisha	630
	Guna	350
Meghalaya	Shillong	1,450
Maharashtra	Akola	7,041
	Amravati	4,186
	Mahabaleshwar	2,700
	Khalapur	1,200
	Chiplun	750
	Ratnagiri	1,300
	Mahad	230
	Kankavali	1,700
	Udgir	1,600
	Ahmednagar	1,800
	Arvi	5,600
Orissa	Berhampur	—
	Kaimati	330
	Nimapara	435
Rajasthan	Alwar	2,000
	Ajmer	7,000
	Jodhpur	4,000
	Bikaner	4,000
	Kotah	4,000
	Udaipur	3,000
Tamil Nadu	Erode	17,700
West Bengal	Siliguri	4,500
		91,065

Total Number of Dairy Plants :

(*a*) Liquid Milk Plants	79
(*b*) Milk Product Factories	12
(*c*) Pilot Milk Scheme	50
	141

The Govt. of India have set up the Indian Dairy Cortion at Vadodara for stimulating Milk marketing and dairy development under the project known as Operation Flood which has been undertaken with the co-operation of the World Food Programme. Under this project, World Food Programme has agreed to supply, free of cost, during the five year period from 1970-71 to 1974-75, in a phased programme, 126,000 tonnes of dried skimmed milk powder and 42,000 tonnes of butter oil. The dried milk when reconstituted into liquid milk will generate funds worth about Rs. 954 million. These funds are to be used for increasing milk processing facilities in the public sector dairies from 1 million to 2.75 million litres per day and also for increasing milk production in eleven States and Union territories through measures like provision of ready mixed concentrates and green fodder, artificial insemination, veterinary services and medicines, calf rearing assistance, development of improved milch animals and organisation of rural procurement of milk.

During the period July, 1970 to May, 1973 the total quantity of skimmed milk powder and butter oil received by the Indian Dairy Corporation was 28,550 tonnes and 8,450 tonnes respectively. With the sale of these commodities the funds generated by the Indian Dairy Corporation have been Rs. 178 million and the expenditure has been about Rs. 140 million. By the end of the Fourth Plan the corresponding figure is expected to move to Rs. 360 million. According to the schedule laid down under the Project, the relevant figures should have been about Rs. 800 million. Thus, there has been a significant lag between the targets of Indian Dairy Corporation and its actual performance due to the delay in the expansion of 4 metropolitan dairies in respect of their recombining equipment. The Corporation is at present operating in 59 districts.

Animal Health Programme: 2451 veterinary hospitals and dispensaries have been established and 520 dispensaries upgraded. 64 checkposts and 60 vigilance units have been set up on important cattle routes at the inter-State and international borders, for the eradication of rinderpest. As a result of mass vaccination programme, the incidence of rinderpest has been considerably reduced, the total number of out-breaks in the country in 1973-74 being 80 as against 160 in the previous year. About 57 million vaccinations are likely to have been carried out during 1973-74 and the production of vaccine is likely to reach a level of 71 million doses.

With a view to checking the introduction of diseases in the country through imports of livestock and to ensure exports of disease-free livestock and livestock products, animal quarantine stations are proposed to be set up at Delhi, Calcutta, Madras and Bombay. The land required for setting up the stations at Delhi and Madras have been acquired. A new scheme for the establishment of the **Central Foot and Mouth Disease Vaccine Laboratory** at Bangalore has also been taken up.

Research and Education :

(1) The Indian Veterinary Research Institute, in Izatnagar (U.P.) and Punjabrao Krishi Vidyapeeth, Maharashtra are post graduate institutions for Veterinary Science.

(2) Central Sheep and Wool Research Institute, Malpura, Rajasthan.

(3) National Dairy Research Institute, Head Office at Karnal in Haryana.

There are 20 agricultural universities in the country with Department of Animal Husbandry.

The 21 Veterinary colleges are at :—Tirupati, Hyderabad (Andhra Pradesh), Khannapara Gauhati (Assam); Patna, Kanke-Ranchi (Bihar); Mannuthi-Trichur (Ker[illegible] Mhow, Jabalpur (Madhya Pradesh); Madras city (Tamil Nadu); Bombay, Nagpur, Parbhani (Maharashtra); Anand (Gujarat); Hebbal-Bangalore (Karnatka); Bhubaneswar (Orissa); Bikaner (Rajasthan); Hissar (Haryana); Mathura, Pantnagar (Uttar Pradesh); Belgachia — Calcutta (West Bengal); and Ludhiana (Punjab).

METRIC SYSTEM

THE country adopted the metric system of weights and measures on 1st Oct. 1958. On that date the units of mass were introduced in selected areas, and the metric system generally in certain specified industries and Government departments. The law (the Standards of Weights and Measures Act, 1956) passed in December 1956, provides that the system should be adopted in the country within a period of 10 years, from the date of enactment. As a result, after December 1966, the metric system, as recognised by law, started functioning throughout the country.

DOUBLE CONVERSION TABLES FOR WEIGHTS AND MEASURES

The figures in heavy type represent either of the two columns beside them, as the case may be. Examples: 1 centimetre = 0·394 inch and 1 inch = 2·540 centimetres. 1 metre = 1·094 yards and 1 yard = 0·914 metre. 1 kilometre = 0·621 mile and 1 mile = 1·609 kilometres. 1 cubic metre = 1·308 cubic yards and 1 cubic yard = 0·765 cubic metre.

Centimetres		Inches	Metres		Yards	Kilometres		Miles	Cubic Metres		Cubic Yards
2·540	**1**	0·394	0·914	**1**	1·094	1·609	**1**	0·621	0·765	**1**	1·308
5·080	**2**	0·787	1·829	**2**	2·187	3·219	**2**	1·243	1·529	**2**	2·616
7·620	**3**	1·181	2·743	**3**	3·281	4·828	**3**	1·864	2·294	**3**	3·924
10·160	**4**	1·575	3·658	**4**	4·374	6·437	**4**	2·485	3·058	**4**	5·232
12·700	**5**	1·969	4·572	**5**	5·468	8·047	**5**	3·107	3·823	**5**	6·540
15·240	**6**	2·362	5·486	**6**	6·562	9·656	**6**	3·728	4·587	**6**	7·848
17·780	**7**	2·756	6·401	**7**	7·655	11·266	**7**	4·350	5·352	**7**	9·156
20·320	**8**	3·150	7·315	**8**	8·749	12·875	**8**	4·971	6·116	**8**	10·464
22·860	**9**	3·543	8·230	**9**	9·843	14·484	**9**	5·592	6·881	**9**	11·772
25·400	**10**	3·937	9·144	**10**	10·936	16·094	**10**	6·214	7·646	**10**	13·080
50·800	**20**	7·874	18·288	**20**	21·872	32·187	**20**	12·427	15·291	**20**	26·159
76·200	**30**	11·811	27·432	**30**	32·808	48·281	**30**	18·641	22·937	**30**	39·239
101·600	**40**	15·748	36·576	**40**	43·745	64·375	**40**	24·855	30·582	**40**	52·318
127·000	**50**	19·685	45·720	**50**	54·681	80·468	**50**	31·068	38·228	**50**	65·398
152·400	**60**	23·622	54·863	**60**	65·617	96·562	**60**	37·282	45·873	**60**	78·477
177·800	**70**	27·559	64·007	**70**	76·553	122·655	**70**	43·495	53·519	**70**	91·557
203·200	**80**	31·496	73·151	**80**	87·489	128·750	**80**	49·709	61·164	**80**	104·636
228·600	**90**	35·433	82·295	**90**	98·425	144·843	**90**	55·923	68·810	**90**	117·716
254·000	**100**	39·370	91·349	**100**	109·361	160·936	**100**	62·136	76·455	**100**	130·795

DOUBLE CONVERSION TABLES FOR WEIGHTS AND MEASURES—(*Contd.*)

The figures in heavy type represent either of the two columns beside them, as the case may be. Examples: 1 kilogram = 2·205 Av. pounds, and 1 Av. pound = 0·454 kilogram. 1 litre = 1·760 pints and 1 pint = 0·568 litre. 1 gallon = 4·546 litres and 1 litre = 0·220 gallon.

Kilograms		Av. Pounds	Litres		Pints	Litres		Gallons
0·454	**1**	2·205	0·568	**1**	1·760	4·546	**1**	0·220
0·907	**2**	4·409	1·136	**2**	3·520	9·092	**2**	0·440
1·361	**3**	6·614	1·705	**3**	5·279	13·638	**3**	0·660
1·814	**4**	8·818	2·273	**4**	7·039	18·184	**4**	0·880
2·268	**5**	11·023	2·841	**5**	8·799	22·730	**5**	1·100
2·722	**6**	13·228	3·409	**6**	10·559	27·276	**6**	1·320
3·175	**7**	15·432	3·978	**7**	12·319	31·822	**7**	1·540
3·629	**8**	17·637	4·546	**8**	14·078	36·368	**8**	1·760
4·082	**9**	19·842	5·114	**9**	15·838	40·914	**9**	1·980
4·536	**10**	22·046	5·682	**10**	17·598	45·460	**10**	2·200
9·072	**20**	44·092	11·365	**20**	35·196	90·919	**20**	4·399
13·608	**30**	66·139	17·047	**30**	52·794	136·379	**30**	6·599
18·144	**40**	88·185	22·730	**40**	70·392	181·838	**40**	8·799
22·680	**50**	110·231	28·412	**50**	87·990	227·298	**50**	10·999
27·215	**60**	132·277	34·094	**60**	105·588	272·758	**60**	13·198
31·751	**70**	154·323	39·777	**70**	123·186	318·217	**70**	15·398
36·287	**80**	176·370	45·459	**80**	140·784	363·677	**80**	17·598
40·823	**90**	198·416	51·142	**90**	158·382	409·136	**90**	19·797
45·359	**100**	220·462	56·824	**100**	175·980	454·596	**100**	21·997

CONVERSION OF FEET AND INCHES TO MM

INCHES TO MM

	0″	1/16″	1/8″	3/16″	1/4″	5/16″	3/8″	7/16″	1/2″	9/16″	5/8″	11/16″	3/4″	13/16″	7/8″	15/16″
0″	—	1·6	3·2	4·8	6·4	7·9	9·5	11·1	12·7	14·3	15·9	17·5	19·1	20·6	22·2	23·8
1″	25·4	27·0	28·6	30·2	31·7	33·3	34·9	36·5	38·1	39·7	41·2	42·9	44·4	46·0	47·6	49·2
2″	50·8	52·4	54·0	55·6	57·1	58·7	60·3	61·9	63·5	65·1	66·7	68·3	69·8	71·4	73·0	74·6
3″	76·2	77·8	79·4	81·0	82·5	84·1	85·7	87·3	88·9	90·5	92·1	93·6	95·2	96·8	98·4	100·0
4″	101·6	103·2	104·8	106·4	108·0	109·5	111·1	112·7	114·3	115·9	117·5	119·1	120·7	122·2	123·8	125·4
5″	127·0	128·6	103·2	131·8	133·4	134·9	136·5	138·1	139·7	141·3	142·9	144·5	146·1	147·6	149·2	150·8
6″	152·4	154·0	155·6	157·2	158·8	160·3	161·9	165·5	165·1	166·7	168·3	169·9	171·5	173·0	174·6	176·2
7″	177·8	179·4	181·0	182·6	184·2	185·7	187·3	188·9	190·5	192·1	193·7	195·3	196·9	198·4	200·0	201·6
8″	203·2	204·8	206·4	208·0	209·6	211·1	212·7	214·3	215·9	217·5	219·1	220·7	222·3	223·8	225·4	227·0
9″	228·6	230·2	231·8	233·4	235·0	236·5	238·1	239·7	241·3	242·9	244·5	246·1	247·7	249·2	250·8	252·4
10″	254·0	255·6	257·2	258·8	260·4	261·9	263·5	265·1	266·7	268·3	269·9	271·5	273·1	274·6	276·2	277·8
11″	279·4	281·0	282·6	284·2	285·7	287·3	288·9	290·5	292·1	293·7	295·3	296·9	298·4	300·4	301·6	303·2
12″	304·8															

FEET AND I[illegible]HES TO MM

	0″	1″	2″	3″	4″	5″	6″	7″	8″	9″	10″	11″
1′	305	330	356	381	406	432	457	483	508	533	559	584
2′	610	635	660	686	711	737	762	787	813	838	864	889
3′	914	940	965	991	1016	1041	1067	1092	1118	1143	1168	1194
4′	1219	1245	1270	1295	1321	1346	1372	1397	1422	1448	1473	1499
5′	1523	1549	1575	1600	1626	1651	1676	1702	1727	1753	1778	1803
6′	1829	1854	1880	1905	1930	1956	1981	2007	2032	2057	2083	2108

Sq. Yards into Sq. Metres and Sq. Metres into Sq. Yards.

Sq. Metres		Sq. Yards
0·836	**1**	1·196
1·672	**2**	2·392
2·508	**3**	3·588
3·345	**4**	4·784
4·181	**5**	5·980
5·017	**6**	7·176
5·853	**7**	8·372
6·689	**8**	9·568
7·525	**9**	10·764
8·361	**10**	11·960
9·197	**11**	13·156
10·034	**12**	14·352
10·870	**13**	15·548
11·706	**14**	16·744
12·542	**15**	17·940
13·378	**16**	19·136
14·214	**17**	20·332
15·050	**18**	21·528
15·886	**19**	22·724
16·723	**20**	23·920
17·559	**21**	25·116
18·395	**22**	26·312
19·231	**23**	27·508
20·067	**24**	28·704
20·903	**25**	29·900
21·739	**26**	31·096
22·575	**27**	32·292
23·412	**28**	33·488
24·248	**29**	34·684
25·084	**30**	35·880
25·920	**31**	37·076
26·756	**32**	38·272
27·592	**33**	39·468
28·428	**34**	40·664
29·264	**35**	41·860
30·101	**36**	43·056
30·937	**37**	44·252
31·773	**38**	45·448
32·609	**39**	46·644
33·445	**40**	47·840
34·281	**41**	49·036
35·117	**42**	50·232
35·953	**43**	51·428
36·790	**44**	52·624
37·626	**45**	53·820
38·462	**46**	55·016
39·298	**47**	56·212
40·134	**48**	57·408
40·970	**49**	58·604
41·806	**50**	59·800
50·168	**60**	71·760
54·348	**65**	77·739
55·184	**66**	78·935
56·020	**67**	80·131
56·857	**68**	81·327
57·693	**69**	82·523
58·529	**70**	83·719
59·365	**71**	84·915
60·201	**72**	86·111
61·037	**73**	87·307
61·873	**74**	88·503
62·710	**75**	89·699
63·546	**76**	90·895
64·382	**77**	92·091
65·218	**78**	93·287
66·054	**79**	94·483
66·890	**80**	95·679
67·726	**81**	96·875
68·562	**82**	98·071
69·399	**83**	99·267
70·235	**84**	100·463
71·071	**85**	101·659
71·907	**86**	102·855
72·743	**87**	104·051
73·579	**88**	105·247
74·415	**89**	106·443
75·251	**90**	107·639
76·083	**91**	108·835
76·924	**92**	110·031
77·760	**93**	111·227
78·596	**94**	112·423
79·432	**95**	113·619
80·268	**96**	114·815
81·104	**97**	116·011
81·940	**98**	117·207
82·777	**99**	118·403
83·613	**100**	119·599

Sq. Inches into Sq. Centimetres and Sq. Centimetres into Sq. Inches.

Sq. Cms.		Sq. Inches
6·452	**1**	0·155
12·903	**2**	0·310
19·355	**3**	0·465
25·806	**4**	0·620
32·258	**5**	0·775
38·710	**6**	0·930
45·161	**7**	1·085
51·613	**8**	1·240
58·064	**9**	1·395
64·516	**10**	1·550
70·968	**11**	1·705
77·419	**12**	1·860
83·871	**13**	2·015
90·322	**14**	2·170

Sq. Inches into Sq. Centimetres and Sq. Centimetres into Sq. Inches.—*(Contd.)*

Sq. Cms.		Sq. Inches	Sq. Cms.		Sq. Inches
96·774	**15**	2·325	258·064	**40**	6·200
103·225	**16**	2·480	264·515	**41**	6·355
109·677	**17**	2·635	270·967	**42**	6·510
116·129	**18**	2·790	277·418	**43**	6·665
122·580	**19**	2·945	283·870	**44**	6·820
129·032	**20**	3·100	290·322	**45**	6·975
135·484	**21**	3·255	296·773	**46**	7·130
141·935	**22**	3·410	303·225	**47**	7·285
148·387	**23**	3·565	309·676	**48**	7·440
154·838	**24**	3·720	316·129	**49**	7·595
161·290	**25**	3·875	322·579	**50**	7·750
167·742	**26**	4·030	329·03	**51**	7·905
174·193	**27**	4·185	335·48	**52**	8·060
180·645	**28**	4·340	341·94	**53**	8·215
187·096	**29**	4·495	348·39	**54**	8·370
193·548	**30**	4·650	354·84	**55**	8·525
200·000	**31**	4·805	361·29	**56**	8·680
206·451	**32**	4·960	367·74	**57**	8·835
212·902	**33**	5·115	374·19	**58**	8·990
219·354	**34**	5·270	380·64	**59**	9·145
225·806	**35**	5·425	387·10	**60**	9·300
232·257	**36**	5·580	419·35	**65**	10·075
238·709	**37**	5·735	451·61	**70**	10·850
245·160	**38**	5·890	483·87	**75**	11·625
251·612	**39**	6·045	645·16	**100**	15·500

Sq. Feet into Sq. Metres and Sq. Metres into Sq. Feet.

Sq. Metres		Sq. Feet	Sq. Metres		Sq. Feet
0·093	**1**	10·76	2·508	**27**	290·63
0·186	**2**	21·53	2·601	**28**	301·39
0·279	**3**	32·29	2·694	**29**	312·15
0·372	**4**	43·06	2·787	**30**	322·92
0·465	**5**	53·82	2·880	**31**	333·68
0·557	**6**	64·58	2·973	**32**	344·45
0·650	**7**	75·35	3·066	**33**	355·21
0·743	**8**	86·11	3·159	**34**	365·97
0·836	**9**	96·88	3·252	**35**	376·74
0·929	**10**	107·64	3·345	**36**	387·50
1·022	**11**	118·40	3·437	**37**	398·27
1·115	**12**	129·17	3·500	**38**	409·03
1·208	**13**	139·93	3·623	**39**	419·79
1·301	**14**	150·70	3·716	**40**	430·56
1·394	**15**	161·46	3·809	**41**	441·32
1·486	**16**	172·22	3·902	**42**	452·08
1·579	**17**	182·99	3·995	**43**	462·85
1·672	**18**	193·75	4·088	**44**	473·61
1·765	**19**	204·51	4·181	**45**	484·38
1·858	**20**	215·28	4·274	**46**	495·14
1·951	**21**	226·04	4·366	**47**	505·90
2·044	**22**	236·81	4·4[illegible]	**48**	516·67
2·137	**23**	247·57	4·552	**49**	527·43
2·230	**24**	258·33	4·645	**50**	538·20
2·323	**25**	269·10	6·968	**75**	807·29
2·415	**26**	279·86	9·290	**100**	1076·39

Sq. Miles into Sq. Kilometres and Sq. Kilometres into Sq. Miles.

Sq. Kms.		Sq. Miles	Sq. Kms.		Sq. Miles
2·59	**1**	0·386	132·09	**51**	19·691
5·18	**2**	0·772	134·68	**52**	20·077
7·77	**3**	1·158	137·27	**53**	20·463
10·36	**4**	1·544	139·86	**54**	20·850
12·95	**5**	1·931	142·45	**55**	21·236
15·54	**6**	2·317	145·04	**56**	21·622
18·13	**7**	2·703	147·63	**57**	22·008
20·72	**8**	3·089	150·22	**58**	22·394
23·31	**9**	3·475	152·81	**59**	22·780
25·90	**10**	3·861	155·40	**60**	23·166
28·49	**11**	4·247	157·99	**61**	23·552
31·08	**12**	4·633	160·58	**62**	23·938
33·67	**13**	5·019	163·17	**63**	24·324
36·26	**14**	5·405	165·76	**64**	24·710
38·85	**15**	5·792	168·35	**65**	25·097
41·44	**16**	6·178	170·94	**66**	25·483
44·03	**17**	6·564	173·53	**67**	25·869
46·62	**18**	6·950	176·12	**68**	26·255
49·21	**19**	7·336	178·71	**69**	26·641
51·80	**20**	7·722	181·30	**70**	27·027
54·39	**21**	8·108	183·89	**71**	27·413
56·98	**22**	8·494	186·48	**72**	27·799
59·57	**23**	8·880	189·07	**73**	28·186
62·16	**24**	9·267	191·66	**74**	28·572
64·75	**25**	9·653	194·25	**75**	28·958
67·34	**26**	10·039	196·84	**76**	29·344
69·93	**27**	10·425	199·43	**77**	29·730
72·52	**28**	10·811	202·02	**78**	30·116
75·11	**29**	11·197	204·61	**79**	30·502
77·70	**30**	11·583	207·20	**80**	30·888
80·29	**31**	11·969	209·79	**81**	31·274
82·88	**32**	12·355	212·38	**82**	31·660
85·47	**33**	12·741	214·97	**83**	32·047
88·06	**34**	13·128	217·56	**84**	32·433
90·65	**35**	13·514	220·15	**85**	32·819
93·24	**36**	13·900	222·74	**86**	33·205
95·83	**37**	14·286	225·33	**87**	33·591
98·42	**38**	14·672	227·92	**88**	33·977
101·01	**39**	15·058	230·51	**89**	34·363
103·60	**40**	15·444	233·10	**90**	34·749
106·19	**41**	15·830	235·69	**91**	35·135
108·78	**42**	16·216	238·28	**92**	35·521
111·37	**43**	16·602	240·87	**93**	35·908
113·96	**44**	16·989	243·46	**94**	36·294
116·55	**45**	17·375	244·05	**95**	36·680
119·14	**46**	17·761	248·64	**96**	37·066
121·73	**47**	18·147	251·23	**97**	37·452
124·32	**48**	18·533	253·82	**98**	37·838
126·91	**49**	18·919	256·41	**99**	38·224
129·50	**50**	19·305	259·00	**100**	38·610

CRIME STATISTICS—1971

DURING 1971 there were 925,581 cognisable crimes under the Indian Penal Code showing a marginal decrease of 0·3 per cent over 1970. This figure includes juvenile crime.

Crime & Population : During the period 1960 to 1971 the population increased by 27·4 per cent while crime increased by 57·9 per cent.

Volume of crime increased steadily from 1960 to 1967. There was a marginal decrease in 1968 and 1969 after which it continued to rise once again.

Rate of crime per 100,000 population : 1960 (Base year) — 140·5 ; 1966 — 159·4 ; 1967 — 172·5 ; 1968 — 164·7 ; 1969 — 157·5 ; 1970 — 173·7 ; 1971 — 173·3.

Murder : State-wise break-up with 1970 figures in brackets :—

Andhra Pradesh : (1,092) 1,020 ; Assam (500) 494 ; Bihar (1,523) 1,423 ; Gujarat (734) 702 ; Haryana (192) 194; Himachal Pradesh (42) 43 ; Jammu & Kashmir (59) 70 ; Karnataka (694) 759 ; Kerala (372) 431 ; Madhya Pradesh (1,725) 1,727 ; Maharashtra (1,356) 1,311 ; Manipur (51) 25 ; Nagaland (24) 24 ; Orissa (389) 383 ; Punjab (574) 604 ; Rajasthan (655) 555 ; Tamil Nadu (890) 785 ; Tripura (28) 45 ; Uttar Pradesh (3,502) 3,572 ; West Bengal (1,140) 1,851 ; **Total** (15,542) 16,018.

Union Territories : Andaman and Nicobar (8) 12 ; Chandigarh (12) 7 ; Dadra and Nagar Haveli (5) 3 ; Delhi (123) 113 ; Goa, Daman and Diu (14) 18 ; Lakshadweep (—) — ; Pondicherry (4) 9 ; **Total** (166) 162.

Cities : Ahmedabad (25) 31 ; Bangalore (20) 22 ; Bombay (146) 131 ; Calcutta (157) 285 ; Delhi (100) 94 ; Hyderabad (21) 16 ; Kanpur (40) 54 ; Madras (26) 20 ; **Total** (535) 653.

Motives for Murder : Lunacy 0·8 per cent ; Sudden provocation 7·1 per cent ; Sexual causes 9·2 per cent ; Personal vendetta 18·0 per cent ; Disputes over property 14·1 per cent ; Gain 11·3 per cent ; other causes 39·5 per cent.

Kidnapping and Abduction : 1970 figures given in brackets.

Andhra Pradesh (149) 160 ; Assam (511) 424 ; Bihar (581) 559 ; Gujarat (246) 254 ; Haryana (145) 109 ; Himachal Pradesh (57) 76 ; Jammu and Kashmir (190) 187 ; Karnataka (125) 115 ; Kerala (75) 60 ; Madhya Pradesh (970) 928 ; Maharashtra (543) 526 ; Manipur (166) 149 ; Nagaland (9) 11 ; Orissa (117) 80 ; Punjab (301) 289 ; Rajasthan (1,128) 1,164 ; Tamil Nadu (297) ; 211 ; Tripura (24) 12 ; Uttar Pradesh (3,051) 3,063 ; West Bengal (863) 792 ; **Total** (9,548) 9,169.

Union Territories : Andaman and Nicobar (1) 1 ; Chandigarh (16) 11 ; Dadra and Nagar Haveli (—) — ; Delhi (531) 453 ; Goa, Daman and Diu (8) 6 ; Lakshadweep (1) — ; Pondicherry (6) 7 ; **Total** (563) 478.

Cities : Ahmedabad (54) 39 ; Bangalore (2) 12 ; Bombay (178) 180 ; Calcutta (131) 118 ; Delhi (478) 407 ; Hyderabad (16) 26 ; Kanpur (154) 117 ; Madras (35) 18 ; **Total** (1,066) 977.

Dacoity : 1970 figures given in brackets.

Andhra Pradesh (137) 147 ; Assam (195) 189 ; Bihar (1,626) 2,015 ; Gujarat (56) 56 ; Haryana (12) 2 ; Himachal Pradesh (1) 1 ; Jammu and Kashmir (12) 5 ; Kerala (42) 40 ; Madhya Pradesh (416) 443 ; Maharashtra (391) 358 ; Manipur (10) 15 ; Karnataka (81) 78 ; Nagaland (13) 14 ; Orissa (104) 142 ; Punjab (—) 6 ; Rajasthan (111) 100 ; Tamil Nadu (94) 22 ; Tripura (21) 43 ; Uttar Pradesh (5,202) 6,004 ; West Bengal (1,271) 1,496. **Total** (9,795) 11,176.

Union Territories : Andaman and Nicobar (—) — ; Chandigarh (1) — ; Dadra and Nagar Haveli (3) — ; Delhi (29) 14 ; Goa, Daman, Diu (4) 2 ; Lakshadweep (—) — ; Pondicherry (5) 1 ; **Total** (42) 17.

Cities : Ahmedabad (1) 5 ; Bangalore (1) — ; Bombay (30) 30 ; Calcutta (18) 40 ; Delhi (17) 9 ; Hyderabad (2) 3 ; Kanpur (40) 28 ; Madras (—) — ; **Total** (109) 115.

Robbery : 1970 figures given in brackets.

Andhra Pradesh (190) 205 ; Assam (240) 239 ; Bihar (1,045) 1,387 ; Gujarat (354) 404 ; Haryana (23) 21 ; Himachal Pradesh (28) 25 ; Jammu and Kashmir (12) 10 ; Karnataka (136) 152 ; Kerala (154) 134 ; Madhya Pradesh (881) 1,066 ; Maharashtra (1,532) 1,718 ; Manipur (33) 43 ; Nagaland (23) 42 ; Orissa (227) 286 ; Punjab (28) 29 ; Rajasthan (863) 956 ; Tamil Nadu (107) 124 ; Tripura (38) 30 ; Uttar Pradesh (9,710) 10,049 ; West Bengal (947) 1,131 ; **Total** (16,571) 18,051.

Union Territories : Andaman and Nicobar (2) 2 ; Chandigarh (2) 1 ; Dadra and Nagar Haveli (5) — ; Delhi (363) 329 ; Goa Daman & Diu (13) 17 ; Lakshadweep (—) — ; Pondicherry (2) 2 ; **Total** (387) 351.

Cities : Ahmedabad (14) 11 ; Bangalore (26) 20 ; Bombay (225) 203 ; Calcutta (72) 112 ; Delhi (298) 203 ; Hyderabad (36) 28 ; Kanpur (262) 200 ; Madras (1) 17 ; **Total** (934) 884.

House Breaking : 1970 figures given in brackets.

Andhra Pradesh (4,919) 5,377 ; Assam (4,382) 5,040 ; Bihar (20,635) 19,419 ; Gujarat (4,188) 3,843 ; Haryana (1,715) 1,472 ; Himachal Pradesh (366) 386 ; Jammu and Kashmir (840) 789 ; Karnataka (6,193) 6,472 ; Kerala (3,414) 3,334 ; Madhya Pradesh (16,430) 16,986 ; Maharashtra (14,497) 15,102 ; Manipur (175) 163 ; Nagaland (148) 127 ; Orissa (6,832) 6,462 ; Punjab (1,524) 1,387 ; Rajasthan (6,827) 6,319 ; Tamil Nadu (6,658) 6,996 ; Tripura (336) 307 ; Uttar Pradesh (52,006) 52,773 ; West Bengal (9,979) 9,521 ; **Total** (162,064) 162,275.

Union Territories : Andaman and Nicobar (30) 50 ; Chandigarh (133) 116 ; Dadra & Nagar Haveli (26) 33 ; Delhi (3,601) 2,833 ; Goa, Daman and Diu (342) 349 ; Lakshadweep (6) 6 ; Pondicherry (137) 145 ; **Total** (4,275) 3,532.

Cities : Ahmedabad (343) 284 ; Bangalore (1,409) 1,714 ; Bombay (1,903) 1,866 ; Calcutta (819) 761 ; Delhi (3,074) 2,346 ; Hyderabad (662) 743 ; Kanpur (1,370) 1,771 ; Madras (162) 125. **Total** (9,742) 9,610.

Thefts : 1970 figures given in brackets.

Andhra Pradesh (11,394) 12,062 ; Assam (7,210) 7,964 ; Bihar (26,254) 26,000 ; Gujarat (10,718) 10,412 ; Haryana (2,579) 2,448 ; Himachal Pradesh (436) 418 ; Jammu and Kashmir (1,237) 999 ; Karnataka (10,688) 11,235 ; Kerala (5,395) 4,184 ; Madhya Pradesh (30,209) 30,776 ; Maharashtra (42,678) 44,500 ; Manipur (466) 430 ; Nagaland (301) 495 ; Orissa (12,485) 12,495 ; Punjab (2,884) 2,472 ; Rajasthan (9,229) 8,924 ; Tamil Nadu (19,357) 18,959 ; Tripura (1,[illegible]) 995 ; Uttar Pradesh (92,674) 93,407 ; West Bengal (29,765) 27,498 ; **Total** (317,200) 316,673.

Union Territories : Andaman and Nicobar (74) 99 ; Chandigarh (880) 748 ; Dadra & Nagar Haveli (31) 27 ; Delhi (18,007) 16,735 ; Goa, Daman & Diu (371) 379 ;

Lakshadweep (10) 5; Pondicherry (638) 538; **Total** (20,011) 18,531.

Cities: Ahmedabad (1,269) 1,145; Bangalore (3,619) 4,307; Bombay (13,640) 12,758; Calcutta (5,169) 4,225; Delhi (17,168) 16,051; Hyderabad (1,908) 2,041; Kanpur (3,705) 4,479; Madras (4,598) 3,700; **Total** (51,076) 48,706.

Riots: 1970 figures given brackets

Andhra Pradesh (3,388) 2,953; Assam (3,111) 3,154; Bihar (10,239) 10,054; Gujarat (484) 548; Haryana (107) 72; Himachal Pradesh (49) 67; Jammu and Kashmir (736) 563; Karnataka (1,953) 1,797; Kerala (4,269) 3,840; Madhya Pradesh (2,170) 2,390; Maharashtra (2,043) 1,729; Manipur (311) 152; Nagaland (14) 28; Orissa (1,992) 1,650; Punjab (44) 31; Rajasthan (3,381) 4,045; Tamil Nadu (3,075) 4,023; Tripura (336) 286; Uttar Pradesh (14,015) 14,561; West Bengal (16,337) 11,799; **Total** (68, 036) 63,742.

Union Territories: Andaman and Nicobar (16) 16; Chandigarh (9) 5; Dadra & Nagar Haveli (—) 1; Delhi (201) 240; Goa, Daman and Diu (21) 16; Lakshadweep (—) —; Pondicherry (48) 94; **Total** (295) 372.

Cities: Ahmedabad (58) 51; Bangalore (118) 59; Bombay (338) 290; Calcutta (1,217) 1,143; Delhi (178) 203; Hyderabad (93) 54; Kanpur (242) 235; Madras (75) 210; **Total** (2,319) 2,245.

Arms Act: 23,908 offences were reported under this category during 1971 showing a 21·4 per cent increase over 1970.

58 per cent of the total offences were reported from Uttar Pradesh alone. The highest volume of this crime was in Punjab 29·7 followed by Uttar Pradesh 15·6.

Among the cities Kanpur and Delhi registered a significant number of cases and the volume of this crime per 100,000 of population in these two cities was 98·7 and 17·7 respectively.

Opium Act: Punjab recorded 7,580 offences under this Act — approximately 70 per cent of the country's total, followed by Haryana (1,613).

Among the cities 227 cases were registered in Delhi alone out of the total of 297 cases registered in all the cities put together.

Gambling Act: 164,037 cases were registered during 1971. The highest volume per 100,000 population was recorded in Tamil Nadu 88·3 followed by Andhra Pradesh 77·5.

Among the cities the volume was highest in Bombay 216·0 and lowest in Kanpur 22·9.

Suppression of Immoral Traffic in Women and Girls Act: 7,746 cases were registered in 1971 out of which three southern states of Andhra Pradesh, Karnataka and Tamil Nadu accounted for about 86 per cent. About 19 per cent of the total offences in the country were registered in the 8 metropolitan cities, the highest volume being in Bangalore (39·8) followed by Hyderabad (12·3) and Madras (8·6).

Disposal of cases by Police: During 1971 there were 1,138,588 cases of IPC crimes under investigation with the police, including pending cases of previous years. Of these 12·3 per cent had to be dropped due to mistakes of fact or law, or because investigations were refused or the offence was non-cognizable.

The highest percentage in which investigations had to be dropped related to Robbery (25 per cent) and the lowest for murder (3·3 per cent).

Investigations were completed only in 810,691 cases and charge-sheets framed in 52·8 per cent cases.

The highest percentage of cases in which charge-sheets could be laid out was Rape (76·9 per cent). The highest number of cases pending investigations were of counterfeiting (49·7 per cent) and the lowest was in respect of thefts (12 per cent).

Disposal of cases by Courts: There were 943,394 cases under trial in 1971, including those pending from previous years. Of those 7·1 per cent cases had to be withdrawn or compounded. The highest percentage of cases withdrawn or compounded related to cheating (6·9 per cent) whilst the lowest related to murder, culpable homicide and rape (0·8 per cent).

During the year only 32 per cent cases were tried completely. The highest percentage of cases in which trials were completed related to murder (41·7 per cent). It was the lowest in riots (18·9 per cent).

Of the 301,869 cases in which trials were completed 62 per cent ended in conviction.

Juvenile Crimes: There were 26,846 cases of crime committed by juveniles in 1971. This indicated a decrease of 1·4 per cent over 1970.

The crimes committed by juveniles were: Criminal Breach of Trust — 0·8 per cent; Culpable Homicide — 0·2 per cent; Rape — 0·6 per cent; Riots — 6·4 per cent; Kidnapping 1·1 per cent; House-breaking — 16·7 per cent; Thefts — 38·8 per cent; Dacoity — 0·4 per cent; Murder — 1·9 per cent; Robbery — 1·2 per cent; Cheating — 0·8 per cent; Miscellaneous — 31·1 per cent.

State-wise break-up of Juvenile Crimes: Andhra Pradesh 2·2 per cent; Assam 3·9 per cent; Bihar 3·5 per cent; Gujarat 8·8 per cent; Haryana 2·3 per cent; Himachal Pradesh 1·7 per cent; Jammu & Kashmir 0·7 per cent; Karnataka 4·9 per cent; Kerala 0·3 per cent; Madhya Pradesh 18·2 per cent; Maharashtra 25·6 per cent; Manipur 0·4 per cent; Nagaland 0·1 per cent; Orissa 2·0 per cent; Punjab 0·5 per cent; Rajasthan 4·4 per cent; Tamil Nadu 9·5 per cent; Uttar Pradesh 2·7 per cent; West Bengal 2·0 per cent; Delhi 5·2 per cent; Union Territories 1·1 per cent.

Juvenile Crime under Local and Special Laws: A total of 142,760 offences were committed by juveniles, under these laws in 1971. 91 per cent of these were registered in Gujarat, Maharashtra and Tamil Nadu. The Acts under which the offences were committed and the number of cases during 1971 were as follows: Arms Act 237; Opium Act 163; Gambling Act 16,244; Excise Act 3,193; Prohibition Act 38,369; Explosives Act 95; Suppression of Immoral Traffic in Women and Girls 1,617; Motor Vehicles Act 9,466; Indian Railways Act 16,699; Miscellaneous 57,277.

Juvenile Socio-economic Background: A study was conducted for the first time to ascertain the family background, economic set up, religion, community and education of those involved in juvenile crimes. West Bengal and Delhi were not able to provide data for 1971. The findings cover crimes under IPC and local and special laws.

Family Background: About 70 per cent of the juveniles were living with their parents, 16 per cent were living with guardians and 14 per cent were homeless.

Economic setup: 80 per cent came from the income group below Rs. 150 per month; whilst only 312 juveniles belonged to the Rs. 1,000 and above income group.

Religion: 66 per cent belonged to the Hindu religion, 17·9 per cent to Muslim, 0·9 per cent Sikh, 3·0 per cent Christians and 11·8 per cent others.

Community: 21·0 per cent belonged to Scheduled Castes and 14·2 per cent to Schedule Tribes.

Education : 53·4 per cent arrested were illiterates, 33·7 per cent below primary and 2·1 per cent above Matriculation.

Rape : Total number of rape cases reported in 1971 were 2,487. The break-down of this figure in terms of ages of the victims are as follows: 723 below 16 years; 1,461 between 16 and 30; and 303 above 30 years of age.

Following is the break-down state-wise (within brackets are the figures of victims below 16, 16 to 30 and above 30 in that order).

Andhra Pradesh 54 (23, 28, 3); Assam 108 (21, 73, 14); Bihar 193 (53, 105, 35); Gujarat 53 (9, 41, 3); Haryana 46 (18, 24, 4); Himachal Pradesh 11 (1, 5, 5); Jammu and Kashmir 40 (13, 19, 8); Karnataka 28 (4,20, 4); Kerala 33 (6, 25, 2); Madhya Pradesh 408 (94, 240, 74); Maharashtra 251 (82, 146, 23); Manipur 6 (2, 4, —); Nagaland 10 (2, 6, 2); Orissa 39 (18, 18, 3); Punjab 69 (22, 41, 6); Rajasthan 158 (26, 98, 34); Tamil Nadu 49 (21, 20, 8); Tripura 6 (1, 5, —); Uttar Pradesh 645 (204, 391, 50); West Bengal 221 (75, 128, 18).

Police Killed or Injured : The Statewise breakdown of policemen killed (figure in brackets) or injured:

Andhra Pradesh (2) 89; Assam (1) 55; Bihar (14) 46; Gujarat (1) 238; Haryana (4) 33; Himachal Pradesh (—) 20; Jammu and Kashmir (—) 5; Karnataka (4) 134; Kerala (1) 95; Madhya Pradesh (22) 171; Maharashtra (8) 617; Manipur (—) 36; Nagaland (2) 2; Orissa (4) 102; Punjab (17) 26; Rajasthan (3) 155; Tamil Nadu (5) 117; Tripura (—) —; Uttar Pradesh (22) 252; West Bengal (74) 545; Delhi (3) 480; Other Union Territories (—) 30.

CIVIL AVIATION

Minister for Tourism & Civil Aviation : Mr. Raj Bahadur.

Secretary to Ministry : Vacant.

Director-General of Civil Aviation : S. Ramamritham. (For other officials see "Government of India Personnel.")

Fifth Plan Outlay : Rs. 3,910 million.

INTERNATIONAL AIRPORTS AUTHORITY OF INDIA, 32 Ferozeshah Road, New Delhi 110001. Based at Delhi, IAAI was created as a statutory corporation with effect from February 1, 1972. The management and development of the four international airports, Bombay, Calcutta, Madras and Delhi, was vested in the Authority with effect from April 1, 1972; each international airport has been placed under the charge of a Director.

Members : Air Marshal Y. V. Malse (Chairman); B. S. Das (Whole-time Member); J. N. Dhar (Chief of Operations); Air Chief Marshal P. C. Lal (Retd.), Chairman and Managing Director, Indian Airlines; K. K. Unni, Managing Director, Air India; S. Ramamritham, Director-General of Civil Aviation; Jasjit Singh, Chairman, Central Board of Excise & Customs and ex-officio Additional Secretary, Ministry of Finance; G. C. Katoch, Additional Secretary, Department of Expenditure (Communications Division) and Sr. Member, P & T Board; S. Khurana, Director, Ministry of Tourism & Civil Aviation; B. S. Gidwani, Additional Director-General (Tourism); S. Madhusudan, Labour Representative; T. Venkataramani, Secretary-cum-Law Officer.

Directors of International Airports : Bombay — M. H. Limaye; Calcutta — R. D. Pradhan; Delhi — Air Cdre. A. S. M. Bhawnani; Madras — Air Cdre. A. A. Narayanan.

Traffic Statistics : The following table is for the year 1973-74.

	BOMBAY	CALCUTTA	DELHI	MADRAS
Aircraft Movements				
International				
(*a*) Scheduled	15,507	7,076	10,739	1,218
(*b*) Non-scheduled	1,181	1,501	1,146	200
Domestic				
(*a*) Scheduled	16,613	14,192*	19,818*	9,296
(*b*) Non-scheduled	4,027			64
Passengers				
International				
(*a*) Disembarked	343,496	108,605	232,509	33,227
(*b*) Embarked	345,622	100,888	251,675	33,100
(*c*) Transit	401,939	70,187	352,874	12,757
Domestic				
(*a*) Disembarked	557,536	315,668	406,540	196,736
(*b*) Embarked	613,784	312,742	414,223	202,215
Cargo Handled (in tons)				
International	29,221	4,010	15,516	1,427
Domestic	9,528	5,071	7,434	5,186
Mail (in tons)				
International				
Disembarked	1,566	75	1,263	98
Embarked	853	108	352	99
Domestic				
Disembarked	1,787	1,719	1,605	1,201
Embarked	2,358	1,798	2,585	799

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* Combined Scheduled & non-scheduled. Separate figures are not available for Calcutta & Delhi.

AIRPORTS : At the end of December, 1973, 83 airports were maintained by the Civil Aviation Department. By categories these are :—

Major Airports: (12): Agartala, Ahmedabad, Amritsar, Begumpet, Delhi (Safdargunj), Gauhati, Jaipur, Lucknow, Nagpur, Patna, Tiruchirapalli, Varanasi (Benares).

Intermediate Airports (39) : Aurangabad, Baroda, Behala, Belgaum, Bhavnagar, Bhuntar (Kulu), Bhopal, Bhubaneshwar, Bhuj, Bombay (Juhu), Coimbatore, Gaya, Indore, Junagadh (Keshod), Kailashahar, Kamalpur, Kandla, Khajuraho, Khowai, Kota, Kumbhirgram, Madurai, Mangalore (Bejpe), Mohanbari, Muzaffarpur (Rewaghat), Nadirgul (Gliderdrome, Hyderabad), North Lakhimpur (Lilabari), Panagarh, Pantnagar (Phoolbagh), Porbandar, Port Blair, Raipur, Rajkot, Ranchi, Trivandrum, Tulihal (Imphal), Udaipur, Vijayawada, Visakhapatnam.

Minor Airports (32): Akola, Balurghat, Bilaspur, Chakulia, Cooch-Behar, Cuddappah, Donakonda, Hadapsar (Gliderdrome, Pune), Hassan, Jabalpur, Jhansi, Jharsuguda, Jogbani, Kanpur (Civil), Khandwa, Kolhapur, Lalitpur, Malda, Mysore, Palanpur (Dessa), Panna, Pasighat, Rajahmundry, Ramnad, Raxaul, Rupsi, Santa, Shella, Sholapur, Tanjore, Vellore, Warangal.

Navigational Aids : The Civil Aviation Department has proposed a Rs. 450 million comprehensive scheme to modernise the communication and navigational facilities at the country's major airports during the Fifth Plan period. Under the scheme, major airports will be equipped with landing aids like ILS and precision navigational aids like VOR.

TRAINING CENTRES: The Civil Aviation Training Centre, Allahabad, comprising of an Aerodrome School and Communications School is the principal training centre in the country, where basic training and refresher courses are conducted for departmental officers. During the year 1973, 119 persons were trained in various catagories.

Facilities exist for training of glider instructors and winch operators at the **Government Glider Centre,** Pune. Facilities are available at the **Fire Services Training School** at 229, N. Subash Rd., Calcutta, for training of departmental candidates for courses in crash and fire rescue. Facilities for training foreign nationals are also available at Allahabad and other centres under various aid schemes.

FLYING CLUBS: There are 25 subsidised flying clubs with their headquarters at Amritsar, Hyderabad, Gauhati, Banasthali, Patna, Bombay, Coimbatore, New Delhi, Bangalore, Baroda, Lucknow, Hissar, Jamshedpur, Karnal, Trivandrum, Indore, Nagpur, Madras, Jullundur Cantt., Bhubaneshwar, Patiala, Jaipur, Behala (Calcutta), Raipur and Ludhiana.

GLIDING CLUBS: Besides the Government Centre at Pune, there are 13 subsidised gliding clubs/wings at Agra, Ahmedabad, Amritsar, New Delhi, Deolali, Hissar, Jaipur, Jullundur, Kanpur, Pilani, Raipur, Patiala and Patna.

Aeronautical Communication Services : On 31st December 1973, the Aeronautical Communication Service was operating and maintaining 92 Aeronautical Communication Stations, providing 260 aero mobile channels in the aeronautical mobile service, 274 radio and landline circuits in the aeronautical fixed telecommunications network and 194 radio navigation facilities.

RESEARCH & DEVELOPMENT DIRECTORATE:

Principal functions : (*i*) Airworthiness engineering including type-certification of Civil aircraft and aeronautical equipment ; approval of modifications to civil aircraft, etc. (*ii*) Research, evaluation and development, including investigations on operational problems like aircraft noise, atmospheric turbulence, evaluation of performance and economics of civil transport and other aircraft etc. (*iii*) Prototype development, including design and development of prototype light aircraft, gliders, sailplanes, winches etc. and (*iv*) Training of airworthiness engineering staff.

Achievements : Work on the MK. III prototype 'Revathi' executive-cum-trainer light aircraft begin ; Development of ninth Kartik KS. II glider (TC-49) completed ; Second prototype Mrigasheer HS. II advanced high performance sailplane completed ; Two Arjun IV glider launching winches completed ; Development testing of about 150 samples of aviation turbine fuel, about 60 samples of aviation gasoline and about 65 samples of water mathanol and 10 miscellaneous samples carried out ; 125 aircraft instruments bench-checked/serviced ; 122 welded specimens, 8 samples of indigenous cabin furnishing materials for aircraft, 6 samples of fibre-glass materials and 8 samples of indigenous glider launching winches tested.

ACCIDENTS : During the period 1 January to 31 December, 1973, there were 39 notifiable accidents in India involving 37 Indian and 2 foreign registered aicraft. Five of the accidents to Indian registered aircraft involved the death of 11 crew members and 48 passengers and one other person on the ground as a result of direct hit by the aircraft.

Of the 37 Indian registered aircraft involved in accidents 5 were engaged on scheduled passenger services, 13 on training flights, 12 on crop-spraying operations, 2 on practice flights, 1 each on leaflet dropping and local flying and 3 on private flights.

Out of the 37 accidents to Indian registered aircraft, 2 have been investigated by Courts of Inquiry, 1 by a Committee on Inquiry and 25 by the Department. The remaining 9 accidents to Indian registered aircraft and 1 accident to foreign registered aircraft are still under investigation.

Apart from this, the **Air Safety Directorate** investigated 145 precautionary landings, 3 forced landings, 16 airmiss incidents and 195 minor accidents/incidents during the period from 1 January to 31 December, 1973.

Non-Scheduled Air Transport : As on 31 December, 1972, there were 10 non-scheduled air transport operators who held permits for the operation of purely non-scheduled air transport services. These are :—Air Survey Company of India, Calcutta ; Bharat Commerce & Industries, Calcutta ; Jamair Company, Calcutta ; Cambatta Aviation, Bombay ; Kasturi & Sons, Madras ; J. K. Chemicals, Bombay (Safari Airways) ; Helicopter Services (P) Ltd., Bombay ; Pushpaka Aviation (P) Ltd., Madras ; Daver Aviation, Bombay (for joy rides only).

Scheduled Air Transport : Air India as the national flag carrier and Indian Airlines as the main domestic carrier are the two scheduled airlines. Both these companies came into being when air transport was nationalised under an Act of Parliament, Air Corporation Act, 1953.

AIR INDIA: Headquarters : Air India Building, 218, Backbay Reclamation, Nariman Point, Bombay 400020. Has 35 online and 101 offline sales offices and representations covering 29 countries.

Air India operates a daily 747 service to New York via London which is also served with two additional terminator services via Middle East and Europe. In addition there are two Moscow terminator and six Gulf terminator services. The airline also operates four services a week to Tokyo; two to Osaka; three to Nairobi; and four to Singapore, one of which is extended to Jakarta and two to Sydney via Perth. In addition twice weekly service is operated to Dacca and to Mauritius under Air India and Air-Mauritius flight numbers.

Fleet: Air India today has four Boeing 747-237Bs, four Boeing 707-437 intercontinental jets, three Boeing 707-337Bs and two Boeing 707-337Cs.

Board of Directors: J. R. D. Tata, *Chairman;* K. K. Unni, *Managing Director;* K. G. Appusamy & N. H. Dastur (Commercial), *Dy. Managing Directors;* Air Chief Marshal P. C. Lal; K. N. Mookerjee; N. Khosla; M. S. Sundara; S. K. Kooka; Air Chief Marshal O. P. Mehra; Dr. Ajit Mazoomdar; Air Marshal Y. V. Malse; P. C. Bhattacharyya; C. V. R. Rao.

Management: J. R. D. Tata, *Chairman;* K. K. Unni, *Managing Director;* K. G. Appusamy, *Dy. Managing Director;* N. H. Dastur, *Dy. Managing Director (Commercial);* Capt. J. S. Dhillon, *Director of Operations;* C. V. R. Rao, *Financial Controller;* Om Sawhny, *Director of Engineering;* Capt. K. M. Mathen, *Director of Technical Planning;* P. V. Gole, *Director of Personnel & Industrial Relations.*

Holding Companies: Air India set up on September 9, 1971, a wholly-owned subsidiary company called **Air India Charters Ltd.** This company was formed to get back most of the ethnic traffic which was taken away by non-scheduled operators and by other airlines which consistently rebated fares on Air India's routes. This is a non-IATA charter company and is set up with a capital of Rs. 500,000. At present the company operates one flight a week to Amsterdam.

Another wholly subsidiary company called **Hotel Corporation of India Ltd.** came into being on July 8, 1971. Two 'Centaur" hotel projects are planned; work on one at Bombay Airport will be completed in early 1975, while the second is proposed to be at Juhu Beach, Bombay.

INDIAN AIRLINES: (Head Office: Airlines House, 113 Gurdwara Rakab Ganj Rd., New Delhi, 110001.): The fleet as on 31 August 1974 consisted of 6 Boeing 737's; 9 Caravelle SE-210; 9 Fokker Friendships and 15 HS-748 (Avros). The Airlines services are extended over the entire sub-continent, including Nepal, Burma and Sri Lanka. The operations of the Airlines have been divided into four regions: Delhi, Bombay, Calcutta and Madras.

Board of Directors: Air Chief Marshal P. C. Lal (DFC), *Chairman;* J. R. D. Tata; M. S. Sundara; K. N. Mookerjee; K. K. Unni; N. Khosla; Air Chief Marshal O. P. Mehra; V. Satya Murti; C. J. Lisely; Air Marshal Y. V. Malse; A. H. Mehta; P. C. Bhattacharya.

Executive Heads: Air Chief Marshal P. C. Lal, *Chairman-cum-Managing Director;* V. Satya Murthi, *Dy. Managing Director (Finance & Administration);* A. H. Mehta, *Dy. Managing Director (Technical);* K. N. Kathju, *Director of Engineering;* Capt. A. M. Kapoor, *Director of Operations;* C. J. Lisely, *Commercial Director;* Kirpal Chand, *Financial Controller;* M. L. Parwal, *Controller of Stores & Purchases;* S. K. Chatterjee, *Secretary;* Ajit S. Gopal, *Public Relations Manager;* R. C. Jain, *Manager, Management Advisory Service.*

Regional Directors: Delhi: P. J. Lalvani; Bombay: Capt. D. A. Samant; Calcutta: G. D. Mathur; Madras: Capt. J. Joseph.

	AI		IA	
	1972	1973	1972	1973
Passenger Traffic				
Passengers Carried	454,379	600,616	2,839,900	2,790,973
Passenger kms. (X000)	2,418,466	3,317,673	2,073,463	2,080,856
Available Seat kms. (X000)	4,743,119		3,385,330	
Load Factor — per cent	51·0		61·2	
Freight and Mail Traffic				
Freight tonne kms. (X000)	112,869	155,835	21,884	20,655
Mail tonne kms. (X000)	8,470		11,808	
Productivity				
Total Tonne kms. (X000)	343,908		204,242	15,913
No. of Employees	10,379	10,661	15,272	
Average TKM's for Employee	33,134		13,373	
Fleet Utilisation				
No. of Aircraft	13	13	52	56
Total Revenue Hours (Scheduled & Non-Scheduled)	34,875	44,303	112,691	112,691
Average hours per aircraft	2,683	3,408	2,166	2,166
Route Network				
Scheduled Route Network (kms.)	136,350	136,350	38,663	38,663

(IATA Statistics)

PORTS

THERE are nine major ports in India, 21 intermediate ports and 144 working minor ports. Tuticorin is being developed as a major port.

Technically a major part is one which is capable of taking in ocean-going steamers with a registered tonnage of 4,000 or more and berth them along the wharves.

The nine major ports are Bombay, Calcutta, Cochin, Kandla, Madras, Mormugao, New Mangalore, Paradeep and Visakhapatnam.

State-wise distribution of intermediate ports and the number of minor ports respectively are :

Karnataka : Karwar, Mangalore and 19 minor ports. **Tamil Nadu :** Cuddalore, Nagapattinam, Tuticorin and seven minor ports. **Maharashtra :** Ratnagiri, Redi, and 47 minor ports. **Gujarat :** Okha, Porbander, Bhavnagar, Navalakhi, Bedi, Veraval, Bharuch, Mandvi, Sikka, Surat, and 40 minor ports. **Kerala :** Alleppey, Kozhikode, and nine minor ports. **Orissa :** There is one minor port. **Andhra Pradesh :** Masulipatam, Kakinada and five minor ports. **Pondicherry :** There is one minor port of Pondicherry only. **Andaman & Nicobar Islands :** There are 15 minor ports.

All the major ports are administered by Port Trusts, which are statutory bodies.

The intermediate and minor ports are administered by State Governments.

The National Harbour Board : The Board advises the Central Government on matters of general policy relating to port management and development including the effects on industry, commerce, shipping, railways etc. so as to ensure integrated consideration of all important port matters.

LIGHTHOUSES : There are 293 lighthouses, 9 lightvessels, 156 lightbuoys, 300 lighted and unlighted buoys, 233 beacons, 12 fog signals, 7 M. F. radio beacons, 2 harbour radars, 2 Decca navigator chains, 299 land marks, 716 other marks, making a total of 1,965 aids to navigation strewn over the coastline of approximately 6,950 kms. including Andaman, Nicobar and Lakshadweep Islands.

Programme for the year 1974-75 : The programme includes; (*i*) the construction of lighthouses at Madras, Tuticorin, Beypore, Krishnapatnam, Pondicherry, Manacur, Cochin, Periyar, Cannanore, Mount Delly, Aguada, Kiltan, Kalpeni, Suhelipar, South Button Island, Middle Button Island, Strait Island, North Point, Pullo Millo Island, Hut Bay, Katchall East Bay, Luhara Point, Warsi Borsi, Umbergaon etc. ; (*ii*) carrying out field studies for the offshore lighthouse projects at Lushington shoal, Gururshoal, Bobbyshoal, Ranwarashoal and Perigal rocks ; (*iii*) establishment of Radio Beacons at Antervedi, Pondicherry, Cochin, Suratkal, Minicoy, Car-Nicobar and East Island; (*iv*) installation of optical equipment at Suhelipar, Karumbhar, Sao George, Port Cornwallis and Rutland Island Lighthouses; (*v*) establishment of a fog signal at Diu Head Lighthouse.

BOMBAY : The Port of Bombay owns landed estates extending over 761 hectares from Pilot Bunder to Wadala and the docks cover an area of 283 hectares. Sassoon Dock has a water area of 1½ hectares and limited facilities for five ships of 1,000 tonnes.

Besides the docks there are a number of "Bunders" or open wharves along the harbour front with a total quayage of about 12 kms.

Repair facilities for shipping are provided at two drydocks — Hughes and Mereweather.

The Port maintains its own railway system which serves the docks, ten local stations and a large number of sidings on the Port Trust estates. It also connects the main line railways.

Chairman : K. K. Uppal ; *Secretary :* J. J. Parakh.

The Planning Commission has approved Bombay's proposed satellite port at Nhava-Sheva for inclusion in the Fifth Plan.

MAJOR PORTS (1973-75)

Ports	Receipts (Rs.)	Expenditure (Rs.)	No. of passengers embarked	No. of passengers disembarked	Imports in tonnes	Exports in tonnes
Bombay	333,286,849	307,249,898	180,157	169,202	14,346,066	4,216,836
Calcutta	—	—	—	—	3,890,000	2,434,000
Cochin	41,580,000	54,485,000	3,344	4.247	2,875,456	845,383
Kandla	34,995,000	35,178,000	Nil	Nil	2,903,342	218,344
Madras	128,018,459	149,112,519	41,959	40,054	4,688,405	3,061,564
Mormugao	35,700,000	26,664,000	Nil	740	629,244	13,705,780
Visakhapatnam	104,312,000	82,432,000	474	1,425	2,990,000	4,960,000

CALCUTTA : There are two docks, known as Kidderpore Dock and Netaji Subhash Dock. The third and subsidiary deep water dock at Haldia meant for handling bulk carriers and bigger vessels is under construction. This is expected to be commissioned by early 1975. Over 85 per cent of project works have been executed. An oil jetty, a part of the Haldia Dock Complex is already in commission. There are five dry docks — two in Netaji Subhash Dock, and three in Kidderpore Dock I and II.

There are nine jetties on the Strand Bank in Calcutta of which only five are available for ocean-going steamers. Five river-side jetties are also available at Garden Reach for sea-going vessels. The Port can hold about 90 vessels in impounded docks, riverside jetties and river moorings.

There are petroleum wharves at Budge Budge about 22·53 kms. from Calcutta.

Anchorages are available at Saugor Road, Haldia, Kalpi, Diamond Harbour, Royapur, Uluberia, Budge Budge and Garden Reach of which Royapur, Uluberia, Budge Budge and Garden Reach are available only for outward bound deep-laden vessels or in emergency. The other anchorages are used by ships on passage to and from the Port.

Kidderpore Dock No. 2 has six coal berths.

The port can handle over 14 million tonnes of traffic annually.

The chief exports from Calcutta are coal, tea, sugar, gunnies, bone and bone-meal, bunker oil, iron and steel manufactures, lac, scrap, ores, mica and railway wagons. The principal imports are salt, foodgrains and flour, sulphur, tinplate, machinery, petroleum, iron and steel, metals other than iron and steel, lubricating oil, cement, soda, timber, fertilisers, bricks, chemicals, oils, railway material.

Chairman : P. C. Mittra ; *Secretary :* K. N. Ganguly.

COCHIN : The Port of Cochin is open for deep water traffic in the worst monsoons and provides a splendid anchorage at all times of the year. Any ship drawing upto 30 ft. draft can enter the port even in the roughest weather.

The Cochin Harbour Railway is connected with the broad gauge and metre gauge systems of the Southern Railway. Inside the Harbour there are 12 stream berths, 2 coal berths, 8 wharf berths, 1 boat train pier jetty with facilities for discharging and loading bunker oil, two tanker berths and an open berth. Facilities for handling container cargo are provided at Q-5 berth of Ernakulam Wharf.

The principal imports are foodgrains, mineral oils (crude), cashewnuts, zinc concentrate, chemicals and manure. The principal exports are coir and coir products, tea, rubber, cashew kernels, seafoods, coconuts, spices, and mineral oil products. The Fifth Plan for port development has an outlay of Rs. 447·50 million.

Chairman : A. K. K. Nambiar, I.A.S.

KANDLA : The major port of Kandla has now the following main facilities :—

A cargo jetty with : (*a*) 1,166 m. of quayage and designed depth of 9·8 m. of water alongside to accommodate five large size ships or six liberty type oceangoing vessels ; (*b*) Three single storeyed transit sheds, each 137 m. long and 43 m. wide, with a total storage capacity of about 15,000 tonnes of general cargo ; (*c*) Broad wharves served with three dual gauge (BG & MG) railway lines and roads ; (*d*) 21 electric quay cranes, the most modern type of 3 tonnes, 6 tonnes and 10 tonnes capacities ; (*e*) Spacious open stacking grounds served with railway and road sidings ; (*f*) Four double storeyed warehouses, each 152 m. long and 37 m. wide with storage capacity of 60,000 tonnes, with overbridge connections to the roofs of the transit sheds, and provided with modern cargo lifts, chutes and loading platforms ; (*g*) 'Grinnel' automatic sprinkler and fire alarm system has been provided in one warehouse as a measure for protection against fire, for the storage of cotton cargo in the warehouse ; dangerous cargo sheds of 320 tonnes capacity and a calcium carbide shed of 48 tonnes capacity ; 3 vegetable oil tanks with a total capacity of 650 tonnes ; 3 sheds for storage of 10,000 tonnes fertiliser ; (*h*) An R.C.C. Pier for handling P.O.L. and other liquid Chemical tankers ; (*i*) 26 vacuator pumps to discharge bulk foodgrains cargo from the tankers ; (*j*) Night navigation ; (*k*) 60 tonnes gantry crane in Bunder for heavy packages ; (*l*) Fishing jetty with 2 tonne crane with cold storage facilities.

The port is equipped with V. H. F. communication network for maintaining contact with pilot launches, survey launches and ships calling at the Port.

The port is connected to its hinterland by broad gauge rail connection *via* Jhund-Ahmedabad and metre gauge rail connection *via* Dessa-Palanpur. Also a national highway connects Kandla to Ahmedabad.

A Free Trade Zone has been established at Kandla.

The chief imports are mineral oil, vegetable oil, foodgrains, fertilisers, muriate of potash, sulphur, and machinery. Exports are salt, bone materials, tea, rice bran, engineering goods, oil cake, bentonite, sugar etc.

Chairman : Capt. D. V. Singh ; *Secretary :* Dr. R. P. Bhargava.

MADRAS : *Berthing facilities :* There are in all 19 berths and 3 moorings with depth ranging from 7·90 m. to 13·40 m. at the low tide. The alongside berths include an oil berth in the Bharathi Dock and four berths for handling iron ore in the inner Harbour.

Bharati Dock : This outer dock located on the northern side of the main harbour basin was commissioned on 4th February 1973 and is named after Subramanian Bharati. The Bharathi dock comprises an oil berth and ore berth both designed to cater to 100,000 DWT vessels.

The oil berth now catering to 77,000 DWT tankers consists of five marine loading arms, 3 for handling crude and 2 for refined products. The crude can be handled at 4,000 tonnes per hour and the refined products at 1,000 tonnes per hour. The oil berth is the deepest in the country as on date.

Works connected with the commissioning of a fully mechanised iron ore handling facility designed for receiving by rail, stockpiling, reclaiming, weighing, sampling and shiploading iron ore are in progress. The quantity to be handled per annum will be 5 million tonnes initially and 8 million tonnes ultimately. The work is expected to be completed by 1975.

Cargo handling equipment : Level luffing electric cranes of various capacities have been provided at each berth in addition to an adequate number of mobile cranes, forklifts, platform trucks, tractors, trailors etc. In addition a floating crane 'VAIGAI' of capacity 120 tonnes also helps the handling of heavy packages overside. Palletisation on an extensive scale is also among other factors helping to achieve quicker turn round of vessels. Pre-slinging method in cargo handling has also been introduced.

Storage and other facilities : There are 16 warehouses and 10 transit sheds providing covered accommodation of 78,000 sq. mtrs. and 47,000 sq. mtrs. respectively with rail road access. Bonding facilities and separate stacking area for hazardous goods are available. In addition, 200,000 sq. mtrs. of open area is also available for storage. There is a separate yard for stacking of iron ore intended for shipment.

Apart from this 3 storage tanks of 5, 8 and 10 thousand tonnes capacity with shore to ship and vice versa pumping facilities are available to handle commodities like mutton tallow, molasses, edible oils etc. There are also three storage tanks of 10,000 tonnes capacity each for storage of phosphoric acid.

All the alongside berths have fresh water connections for supply to shipping and adequate facilities exist for bunkering oil.

Types of cargo handled : The main imports are coal, foodgrains, mineral oils, fertilisers, phosphate, sulphur and phosphoric acid. Under general cargo, machinery, hardware, iron and steel, cotton, metals and timber form the major imports.

The principal exports are iron ore, barytes hides and skins, refined oil products, tobacco, oil cake scrap and twist and yarn.

Chairman : R. Balasubramanian, I.A.S. ; *Gen. Manager :* K. S. Ramakrishnan, I.A.S. ; *Secretary :* P. R. Narasimhan.

NEW MANGALORE : New Mangalore Port is situated at 9 kms north of the existing minor port of Mangalore. This port, conceived designed and executed by the Indian engineers is the 9th major port in the country and cost Rs. 330 million.

Communications : Mangalore is connected by a broad gauge railway line to Madras via Calicut and National Highway 17 connecting Bombay to Cape Comorin passes by the side of the new port.

Berthing facilities : Port of New Mangalore provides for 3 alongside berths to cater to (1) general cargo, (2) iron ore and manganese ore (3) raw material import for fertiliser factory, (4) one shallow draft berth for export of finished fertilisers and (5) an oil jetty for handling of naphtha and petroleum products. The dredged depth available at all the alongside berths including oil jetty will be 9·75 mtrs. The shallow draft berth has a draft of 6·35 mtrs.

The port has been well provided with cargo handling equipment, such as grabbing wharf cranes, electric level luffing cranes, mobile cranes — all of varying capacities — and storage facilities.

Other facilities : Fresh water supply, bunkering, well equipped workshops are available. Front and rear leading lights, fair way buoys and channel marking buoys are under procurement.

Estimated annual Traffic : The Port is expected to handle initially a traffic of about 0·751 million tonnes during 1974-75 and 2·294 million tonnes during the year 1978-79. Main items of traffic are POL, iron ore, manganese ore, fertilisers, tile, cement, foodgrain, salt, forest products, coffee and other general cargo.

Provision for a dredger for the Port, slipway, one additional tug have been made in the Fifth Five Year Plan.

Chief, Administrator & Conservator of the Port : H. K. Panditaradhya.

MORMUGAO : The Port of Mormugao is a major port of India providing modern facilities in handling both ore and general cargo traffic.

It is foremost among Indian ports in the export tonnage of ore and in the combined export tonnage of all items.

It held second position in total traffic tonnage handled during 1973-74.

During 1973-74, the Mormugao Port broke all its previous records in annual traffic by handling 14·34 million tonnes during the year, which was 1·49 million tonnes more than its own all-time record of traffic during the previous year of 12·85 million tonnes. The traffic in 1973-74 consisted of over 13·09 million tonnes of iron ore, 0·11 million tonnes of manganese ore, 89,565 tonnes of oil-cakes and 34,671 tonnes of sugar — all in exports, and 0·63 million tonnes of imports consisting of mineral oils, fertilisers and general cargo.

Development project of the port : A massive project costing over Rs. 600 million for developing the port facilities is now under execution and is scheduled to be completed in 1976

Chairman : R. J. Majithia, I.A.S. ; *Secretary (Atg.) :* M. J. Kurian.

PARADIP (ORISSA): Declared as a major port on 18th April, 1966 and opened to traffic from 1-11-1966, the Port handled traffic to the extent of 2·15, 1·90, 2·02 and 2·28 million tonnes during the years 1970-71, 1971-72, 1972-73 and 1973-74 respectively. The main traffic is export of iron ore.

VISAKHAPATNAM: Ships drawing upto 10·21 mtrs. and having a length upto 195 mtrs. can enter the harbour.

The inner harbour consists of a turning basin, six quay berths, two fully mechanised ore berths for export of iron ore, an oil wharf consisting of two berths, one mechanised fertiliser berth, three jetty berths and four mooring berths. It can accommodate 14 ships alongside and 4 in the moorings.

All the six quay berths with a quay length of 1,083 mtrs. are equipped with portal electric cranes, transit sheds, railway lines, road approaches etc.

EAST COAST PORTS (1973-74)

Ports	Receipts (Rs.)	Expenditure (Rs.)	No. of passengers embarked and disembarked	Imports in tonnes	Exports in tonnes	Weight of Cargo in tonnes handled
Cuddalore ..	4,236,064	1,786,368	—	23,112	280,273	303,385
Kakinada ..	1,547,498	—	—	230,574	505,580	528,634
Machilipatnam ..	29,940	89,521	—	—	—	—
Nagapattinam ..	476,579	772,573	12,251	159,630	23,624	183,254
Tuticorin ..	7,917,778	6,756,068	11	658,284	311,782	970,066
Rameswaram ..	76,777	199,036	79,927*	321	316	637
Colachel	28,288	2,245	—	—	44,545	44,545
Kilakarai ..	4,557	4,492	—	82	5,822	5,904
Pamban	30,189	68,169	—	5,114	316	5,430

* Includes 43,098 repatriates from Sri Lanka.

MINOR PORTS OF MAHARASHTRA STATE (1973-74)

(Under M.S.P.A.)

Ports	No. of passengers embarked & disembarked			Imports in tonnes	Export in tonnes
	Steamer passenger Traffic	Creek passenger traffic by launch	Creek to Bombay Harbour services traffic		
1	2	3	4	5	6
Vengurla Group of Ports ..	7,926	—	801,507	13,264	1,173,276
Vijaydurg ,, ,, ..	81,292	—	372,850	13,251	6,471
Ratnagiri ,, ,, ..	55,991	—	1,853,767	44,121	3,910
Rajpuri ,, ,, ..	6,144	671,030	659,727	6,915	4,953
Bandra ,, ,, ..	—	637,146 }	1,117,674	3,693	71,000
Mora ,, ,, ..	—	758,251 }	288,111	40,755	65,291
		(Bombay Harbour)			

Chief Ports Officer, Capt. N. N. Banerji.

WEST COAST PORTS (1973-74)

Ports	Receipts (Rs.)	Expenditure (Rs.)	No. of passengers embarked & disembarked	Imports in tonnes	Exports in tonnes	Total tonnage of cargo handled
Calicut (including Beypore)	400.425	546,541	3.263	103,109	71,117	174,226
Alleppey	177,930	282,887	—	16,242	11,321	27,563
Neendakara	470,013	351,853	—	9,786	86,285	96,071
Trivandrum	41,395	55,481	—	18,450	—	18,450
Quilon	51,959	N.A.	2	28,551	1,108	29,659
Ponnani	5,419	14,964	—	283	53	336
Badagara	667	25,287	—	—	—	—
Cannanore	6,759	14,137	—	362	2,078	2,440
Tellicherry	3,211	32,553	—	543	679	1,222
Azhikkal	85,249	64,277	—	5,372	16,058	21,430
Kasargod	1,856	8,137	—	—	—	—
Mangalore	1,881,679	1,359,925	107	127,884	357,456	485,340

A Dry Dock, 137·16 mtrs. long, 18·44 mtrs. wide and 5·63 mtrs. deep can take in ships of 122 mtrs. in length and 4·9 mtrs. draft.

A graving dry dock of M/s. Hindustan Shipyard Ltd., Visakhapatnam is available for dry docking of ships of upto 70,000 DWT.

There are 5 transit sheds capable of accommodating 36,450 tonnes of cargo. There are 2 storage sheds with a total capacity of 13,200 tonnes. For stacking mineral ores, a vast area of about 80,000 sq. mtrs. which can accommodate about 300,000 tonnes at a time, is also available. Open space measuring about 36,400 sq. mtrs. is available for the storage of pig iron, rock phosphate and sulphur.

The most important of the development works taken up in the IV Plan period is the construction of an outer harbour, at a cost of Rs. 720 million. After completion of the project, the Harbour can accommodate ore carriers upto 100,000 DWT. The capacity can be increased upto 200,000 DWT by undertaking additional works.

Chairman : B. K. Rao, *Secretary :* Y. Parthasarathi.

GUJARAT PORTS: There are in all 41 ports in Gujarat State of which Kandla is a major port, Diu and Daman are centrally administered ports while 11 intermediate and 27 minor ports are under the administrative control of State Government.

PORT DEVELOPMENT: Provision of Rs. 3,520 million has been made in the Fifth Plan for development of major and minor ports.

RAILWAYS

HISTORY : **First railway (consisting of 14 four-wheeled teak coaches carrying 400 passengers) in** India ran over a distance of 33·6 kms. from Bombay to Thana on 16th April, 1853. Development of rail communications, however, took place after 1858. Upto the revolt in 1857, railway was practically unknown, except for a few miles around Bombay, Calcutta and Madras.

The revolt highlighted the need for proper communications. Thus by 1871 a general system connecting the different provinces and the hinterland of each province with its ports was completed.

The Government of India took under direct management. The East India Railways — 1st January, 1925; Great Indian Peninsular Railway — 30th June, 1925;

Burma Railways — 1st January, 1929; Southern Punjab Railway — 1st January, 1930.

Zonal Administration: The entire Government Railway system is now grouped into nine administrations (Headquarters within brackets): Southern Railway (Madras); Western Railway (Bombay); Central Railway (Bombay); Northern Railway (Delhi); Eastern Railway (Calcutta); South-Eastern Railway (Calcutta); North-Eastern Railway (Gorakhpur); North-East Frontier Railway (Maligaon, Gauhati); South Central Railway (Secunderabad).

There are six non-government railways. The route kilometrage is given in brackets after the name:—

Arrah-Sasaram Light (104·86); Dehri-Rohtas Light (66·75); Futwah-Islampur (43·45); Howrah-Amta Light[1] (70·31); Howrah-Sheakhala Light[1] (27·16); Shahdara (Delhi)-Saharanpur Light[1] (148·87).

SOME BASIC FACTS

No. of Daily Passengers: 7·3 million; First Sleeper Accommodation: 1954; Total No. of Sleeper Coaches: 1,900 (1,400 Broad Gauge and 500 Metre Gauge); Labour Force: 1·43 million men and women; Total Route Kilometrage: 60,234 kms.; No. of Locomotives: Steam — 8,842, Diesel — 1,532, Electric — 669; No. of Coaches: 28,001; No. of Wagons: 388,026; No. of Tank Wagons: 18,082; No. of Trains Daily: 10,000; No. of Stations: 7,079; Amount of Freight Carried Daily: 0·5 million-tonnes; Railway Budget separated from Central Budget: 1925; Carrying Capacity of Wagons: 2 axle wagons—22 tonnes; 4 axle wagons—55 to 65 tonnes; Gross Load of Average Freight Train: Conventional (2 axle wagons)—2,230 tonnes—Special (4 axle wagons)—3,650 tonnes; Container Service Introduced: January, 1966; No. of Trains Running over 1,000 kms.: 75; No. of Trains running over 2,000 kms.: 12; Fastest Train: Rajdhani Express (started 1969)—Delhi to Calcutta—covers 1,445 kms. in 17 hours—permissible speed—130 kms.p.h.; First Electric Train: 1925—Bombay V.T. to Kurla—16 kms.; No. of Rail Bridges: 108,035 (including 103,113 bridges having waterways); No of Level Crossings: 41,712; Biggest Marshalling Yard: Mughalsarai—6,000 wagons a day; Longest Railway Platform: Kharagpur-833 metres; Total No. of Seats: 1,839,341; No. of Air-conditioned seats: 2,411; No. of First Class Seats: 141,093; No. of Second Class Seats**: 13,292; No. of Third Class Seats***: 1,682,545; Mandays lost due to illness: 15,591,393 (1973-74): Mandays lost due to strikes: 469,129 (1973-74); Total Female Staff: 18,656; Total Female Officers: 342; Number of Electric Multiple Unit Coaches: 1,898.

Ticketless Travel: Estimated in 1968-69 to cost the Railways about Rs. 250 million. Stringent measures by the railways, including enhancement of penalties, since June 1969, resulted in the decline of ticketless passengers from 8·467 million in 1968–69 to 1·62 million in 1973–74.

The Claim: Theft and pilferage cost Rs. 98·4 million and the total compensation claims amounted to Rs. 136·2 million in 1973–74.

Railway Accidents: Total number of railway accidents in 1971-72: 864, 1972-73: 813, 1973-74: 782.

BUDGET AT A GLANCE

(In million rupees)

	Revised estimates 1974-75	Budget estimates 1975-76
Gross traffic receipt	14,011·5	16,708·6
Working expenses	13,400·1	14,499·5
Net revenue	611·4	2,209·1
Dividend to general revenues	1,893·3	1,978·8
Net surplus or deficit ..	−1,281·0	+ 230·3

NOTE: The deficit in 1974-75 will increase to Rs. 1,439·8 million if the carry-over dividend liability of Rs. 157·9 million for 1973-74 is added.

Railway Statistics (1973-74)

		Central	Eastern	Northern	North-Eastern@
Total Route Kilometrage		6,015·93	4,234·58	10,687·50	4,976·97
Broad Gauge (including electrified kms.)		4,840·30	4,103·20	6,997·95	52·47
Metre Gauge		381·87	—	3,430·09	4,924·50
Narrow Gauge		793·75	131·38	259·56	—
Kilometrage electrified		609·18	1,208·46	575·02	—
,, under construction		—	—	22·36	—
Capital at Charge (Rs. million)		5,066·07	4,686·22	5,295·09	1,157·8
Gross Revenue (Rs. million)		1,833·45	1,323·64	1,656·26	531·6
Working Expenses (Rs. million)		1,261·09	1,561·96	1,619·45	524·5
Net Revenue (Rs. million)		450·78	238·32	368·09	7·2
No. of Locos	Steam	862	1,101	1,409	818
	Diesel/Electric	221	116	179	—
	Diesel/Hydraulic	58	38	55	—
	Electric	139	199	91	—
Electric Motor Coaches		206	186	—	—
No. of Passenger Coaches (including other coaching vehicles, but excluding Brake vans		2,469	3,362	4,495	2,664
Passenger carrying capacity	Air Conditioned (B.G.)	266	457	291	86
	,, (M.G.)		—		
	First Class (B.G.)	9,533	16,006	14,042	6,319
	,, (M.G.)		—		
	,, (N.G.)		62		
	Second Class** (B.G.)	2,562	1,084	2,013	7,542
	,, (M.G.)		—		
	Third Class*** (B.G.)	123,766	224,486	237,215	128,712
	,, (M.G.)		—		
	,, (N.G.)		2,237		

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[1] They are all narrow gauge (0·762 m.) except the two Howrah-Amta and Howrah-Sheakhala which are light gauge (0·610 m.).

@ Figures relate to the year 1972-73. ** Since abolished. *** Now called Second Class.

Railway Statistics (1973-74) — *(Contd.)*

	Central	Eastern	Northern	North-Eastern@
No. of Passengers Carried ('000)	703,948	391,462	296,397	175,408
No. of Goods Wagons (Covered)	31,896	33,406†	34,130	19,457
No. of Special Wagons	7,884	10,682†	13,469	4,137
No. of Goods Wagons (Open)	13,150	21,359†	14,291	5,043
Tonnes Carried ('000)	42,675	55,821*	42,138	14,053
No. of Staff	185,744	204,572	205,719	94,881

@ Figures relate to the year 1972-73. * Estimated. † In terms of number of units.

Railway Statistics (1973-74) — *(Contd.)*

			North-East Frontier	South-Central	Southern	South-Eastern	Western
Total Route Kilometrage			3,628·13	6,162·56	7,452·32	6,842	10,150·03
Broad Gauge (including electrified kms.)			639·40	2,920·13	2341·17	5,363	2,868·45
Metre Gauge			2,901·25	2,872·76	4,958·09	—	6,079·81
Narrow Gauge			87·48	369·61	153·06	1,479	1,201·74
Kilometrage electrified			—	—	166·44	1,345	297·75
,, under construction			—	—	—	—	1,199·09
Capital at Charge (Rs. million)			2,162·08	2,483·1	3,921·3	7,943·1*	4,538·3
Gross Revenue (Rs. million)			382·75	1,008·3	1,070·9	1,836·5	1,837·8
Working Expenses (Rs. million)			596·25	855·2	1,092·9	1,542·7	1,418·3
Net Revenue (Rs. million)			221·91	153·1	22·6	236·2	356·5
No. of Locos	Steam		308	908	966	926	1,385
	Diesel/Electric		71	41	244	244	237
	Diesel/Hydraulic		—	—	8	—	43
	Electric		—	—	20	216	12
Electric Motor Coaches			—	—	45	36	130
No. of Passenger Coaches (including other coaching vehicles, but excluding Brake vans)			2,244	2,541	3,805	3,172	5,054
Passenger carrying capacity	Air Conditioned	(B.G.)	—	14	251	362	488
	,,	(M.G.)	70	—		—	126
	First Class	(B.G.)	1,800	3,108		10,274	13,801
	,,	(M.G.)	4,880	1,426	14,933	—	7,813
	,,	(N.G.)	244	48		—	789
	Second Class**	(B.G.)	618	—	3,462	—	330
	,,	(M.G.)	288	—		—	2,284
	Third Class***	(B.G.)	17,415	54,520		115,323	104,248
	,,	(M.G.)	66,183	35,163	251,003	—	121,136
	,,	(N.G.)	977	6,998		10,937	9,437
No. of Passengers Carried ('000)			36,051	129,123	255,284	114,914	739,208
No. of Goods Wagons (covered)			7,136	10,556	19,358	17,203	32,888
No. of Special Wagons			2,088	714	—	8,560	8,859
No. of Goods Wagons (open)			2,623	2,929	9,753	25,197	12,211
Tonnes Carried ('000)			8,282	26,746	21,510	64,313	31,719
No. of Staff			83,520	N.A.	134,801	183,928*	188,804

* Provisional. † Narrow Gauge. ** Since abolished. *** Now called Second Class.

ROADS

Length of Roads in 1914 : 273,000 kms.

Length of Roads in April, 1973 : 1,337,000 kms.

Metalled Roads : 485,000 kms.

Unmetalled Roads : 852,000 kms.

Above Total Includes 395,000 kms. of tracks made by community development projects.

National Highways : There are 55 roads classified as national highways in India. Total 28,819 kms.

These are : (1) Delhi, Amritsar. (2) Jullundur, Srinagar, Uri. (3) Delhi, Calcutta. (4) Agra, Bombay. (5) Thana, Pune, Bangalore, Madras. (6) Cuttack, Madras. (7) Dhulia, Calcutta. (8) Banaras, Cape-Comorin. (9) Delhi, Ahmedabad, Bombay. (10) Ahmedabad, Kandla. (11) Rajkot, Porbandar. (12) Pune, Vijayawada. (13) Delhi, Fazilka, Pakistan. (14) Agra, Bikaner. (15) Jabalpur, Bhopal, Bisra. (16) Sholapur, Chitaldurg. (17) Ambala, Simla, Tibet. (18) Delhi, Lucknow. (19) Lucknow, Shivpuri. (20) Jhansi, Lakhnadon. (21) Allahabad, Mangawan. (22) Barauni, Lucknow. (23) Pipra Raxaul, Nepal. (24) Go[illegible]hpur, Banaras. (25) Mohania, Patna Bhaktiarpur. (26) Barhi Cooch Behar. (27) Sivok, Gandak. (28) North Salmara to river Brahmaputra. (29) Jamshedpur, Gobindpur. (30) Ranchi, Tatanagar. (31) Dalkhola, Behrampore, Calcutta. (32) Barasat, Bangaon, Pakistan. (33) Goalpara, Gauhati, Saikhoa Ghat. (34) Makum, Lekhapani. (35) Kamargaon, Imphal, Burma. (36) Jorhat. Shillong, Bangladesh. (37) Kolagh, Haldia. (38) Sambalpur, Cuttack. (39) Raipur, Vizianagaram. (40) Madras. Dindigul. (41) Krishnagiri Ranipet. (42) Ernakulam, Cape Comorin. (43) Madurai, Dhanushkodi. (44) Nasik, Pune, (45) Belgaum. Panaji. (46) Haridaspur, Paradip Port. (47) Chandigarh Manali. (48) Nowgong, Manipur Road. (49) Shillong, Agartala. (50) Palayam Kottai, Tuticorin. (51) Pathankot, Kandla. (52) Panvel, Panaji, Mangalore, Trichur. (53) Cortalim, Mormugao. (54) Rourkela, Talchar. (55) Bangalore, Hassan, Managalore.

Condition of National Highways : At the end of April, 1972 there were more than 18,000 kms of single lane carriageways needing to be widened and over 3,000 weak, narrow or damaged bridges needing replacements.

India has the largest network of national highways in Asia.

State-wise length of National Highways (in kms. as in April, 1972).

Andhra-2,299 ; Assam-1,652 ; Bihar-2,117 ; Gujarat 1,352 ; Haryana-729 ; Kerala-733 ; Madhya Pradesh-2,670 ; Maharashtra 2,861 ; Mysore-1,996 ; Meghalaya-161 ; Nagaland-113 ; Orissa-1,649 ; Punjab-864 ; Rajasthan-2,157 ; Tamil Nadu-1,749 ; Uttar Pradesh-2,328 ; West Bengal-1,481 ; Himachal Pradesh-630 ; Manipur-211 ; Tripura-200 ; Jammu & Kashmir-541 ; Union Territories 325. Total length 28,819 kms.

Express Highways : Five express highways have been built for fast movement of traffic. Two are in Bombay the Eastern and Western Express highways. The third runs between Calcutta and Dum Dum airport, the fourth between Sukinda mines to Paradip port in Orissa and, the fifth, almost 160 kms. long will connect Durgapur to Calcutta. Work on the last is in progress.

International Highways : There are two categories of International highways. The first are the main arterial routes linking the capitals of the countries and, the second, routes joining main cities, ports etc. with the arterial network.

The main arterial highway links India with Lahore in Pakistan and Mandalay in Burma running through Amritsar-Delhi-Agra-Calcutta-Golaghat-Imphal. The two link highways are one through Agra-Gwalior-Hyderabad-Bangalore to Danushkodi and the other from Barhi to Kathmandu. The other links will be Agra-Bombay; Delhi-Multan ; Bangalore-Madras and Golaghat-Ledo.

Border Roads : A Border Roads Development Board was formed in 1960 to develop communications in north and north-eastern border areas.

World's Highest Road : The road from Manali in Himachal Pradesh and Leh in Kashmir runs at an average altitude of 4,267 metres (14,000 feet) and negotiates four very high passes varying from 4,876 metres (16,000 feet) to 5,486 metres (18,000 feet).

Revenue for Motor Transport : The estimated expenditure on roads in 1972-73 is about Rs. 3,153·8 million. This is made up of Rs. 1,895·3 million on road construction or improvements and Rs. 1,258·5 million on maintenance.

During the same period the Central and State Governments earned 8,932·9 million. which is made up as under :

Central Revenue : Motor spirit and diesel oil duties, tyre excise and import duties and vehicle parts imports duties Rs. 6,119·9 million.

State Revenue : Vehicle taxes and passengers and goods taxes and sales taxes on motor fuel Rs. 2,813 million.

Roads Maintained by State Governments and Local Bodies as on 31-3-71 (in kms.)

State	Surfaced Roads	Un-surfaced Roads	Total
Andhra Pradesh ..	48,120	24,582	72,702
Assam	6,609	23,667	30,276
Bihar	39,922	98,000	137,922
Gujarat	21,898	21,514	43,412
Himachal Pradesh ..	2,846	9,197	12,043
Jammu & Kashmir ..	5,117	3,709	8,826
Karnataka	54,903	44,155	99,058
Kerala	43,364	77,659	121,023
Madhya Pradesh ..	35,436	36,936	82,371
Maharashtra	46,371	50,926	97,297
Manipur	1,056	7,553	8,609
Meghalaya	881	5,787	6,668
Nagaland	928	3,893	4,821
Orissa	10,827	46,311	57,138
Punjab	14,830	14,891	29,721
Rajasthan	23,558	26,480	50,038
Tamil Nadu	52,644	39,686	92,330
Tripura	1,119	3,315	4,434
Uttar Pradesh ..	36,437	75,806	112,243
West Bengal	20,168	33,106	53,274
Union Territories ..	6,889	10,645	17,534
Total	475,511	676,907	1,152,418

Road Traffic : The number of motor vehicles in use in India is shown in a table in the section "Automobile Industry".

Road traffic in 1973-74 was more than 6 times that of 1951 in the passenger-bus field and nearly 10 times in the field of goods haulage. The table shows trends of traffic growth :

	Volume of road traffic	Percentage share of road in total road and rail traffic
Goods Traffic :		
1950–51 ..	6 billion tonne-kms.	12·00
1955–56 ..	9 ,, ,,	13·00
1960–61 ..	17 ,, ,,	16·20
1965–66 ..	34 ,, ,,	22·50
1968–69 ..	40 ,, ,,	24·00
1973–74 ..	65 ,, ,,	30·70
1978–79 (Fifth Plan estimate)	110 ,, ,,	—
Passenger Traffic :		
1950–51 ..	23 billion passenger kms.	25·60
1955–56 ..	31 ,, ,,	32·50
1960–61 ..	57 ,, ,,	42·20
1965–66 ..	82 ,, ,,	46·10
1968–69 ..	98 ,, ,,	47·80
1973–74 ..	130 ,, ,,	49·01
1978–79 (Fifth Plan estimate)	180 ,, ,,	—

National Transport : Nationalised bus services almost cover the major parts of Gujarat, Maharashtra, Orissa, Manipur and Himachal Pradesh.

No nationalisation has taken place in Tripura, Goa and Pondicherry, but in the remaining parts of the country the extent to which services have been nationalised varies from one State to another.

In the country as a whole the number of nationalised buses increased from 26,494 in 1966 to 40,571 in 1972.

The freight transport operated in the country by nationalised concerns is, however, less than one per cent of the total goods vehicles in India.

Fifth Plan Outlay: Provision has been made for Rs. 7,140 million for development of national highways in the fifth plan 1974-79. Of this amount Rs. 4,610 million will be used to develop the existing highways and the rest for construction of new roads and purchase of road machinery.

It was also proposed to add 10,000 kms. of new roads to the national highway system during the Fifth Plan period.

Progress in Five Year Plans

	Surfaced (Figures in kms.)	Unsurfaced (Figures in kms.)	Allocation Rs. in million
First Plan * ..	183,023	315,321	1,344·7
Second Plan ..	262,700	464,027	2,458·0
Third Plan ..	342,798	720,835	4,511·2
1970–71 ..	407,045	880,243	1,421·1
1972–73 ..	485,000	852,000	1,895·3

* Excludes Municipal, Forest, Irrigation & M.E.S. Roads.

MUNICIPAL CORPORATIONS (1975)

CIVIC rule in India is a little over a hundred years old. By now Municipal Councils number 1,500; and Municipal Corporations are functioning at: Agra, Ahmedabad, Allahabad, Bangalore, Vadodara, Bhopal, Bombay, Calcutta, Calicut, Chandranagore, Cochin, Delhi, Gwalior, Hubli-Dharwar, Hyderabad, Indore, Jabalpur, Kanpur, Lucknow, Madras, Madurai, Nagpur, Patna, Pune, Raipur, Sholapur, Surat, Trivandrum, Varanasi, Simla, and Bhubaneshwar.

As a general rule the Municipal Councils and Municipal Corporations are established in towns having a population of more than 20,000 and cities having a population of more than 300,000 respectively.

The State Government makes an assessment of the revenue and population of the town/city through the district collector prior to the establishment of the Municipal Council/Corporation.

When a city's revenue exceeds Rs. 20 million, the Council representing the city is upgraded with the concurrence and approval of the State Government.

In fact it is the responsibility of the States to establish Municipal Councils and Corporations. Schedule 7 of the Constitution of India, elucidates this point. The rules and regulations and powers of the Municipal Councils and Corporations vary from State to State.

The following table gives vital statistics of the four major Corporations — Bombay, Calcutta, Delhi and Madras.

	BOMBAY	CALCUTTA	DELHI	MADRAS
Established	1888	1727	7–4–1958	29–9–1888
Area of Jurisdiction (sq. km.)	437	104	1,399	128·83
No. of Administrative wards	17	4	8	120
,, Electoral wards	140	100	100	120
,, Cemeteries	177	53	22	57‡
,, Markets (Corpn. owned and Private) ..	67; 21	10; 142	12	21; 49
,, Slaughter houses	1	4	3	2
,, Labour Welfare Centres	45	N.A.	41	Nil
,, Recreation Centres	251	100	72	1 (Ashok Nagar)
,, Slum dwellers	1·5 million	Approx. 1 million	N.A.	163,800
,, Pavement dwellers	N.A.	105,826	N.A.	2,150 families
,, Beggars	N.A.	41,000	N.A.	N.A.
,, Municipal employees	89,049	34,692	55,500	28,942
Annual wage and salary bill of Corporation (Rs. in million)	272	92·34	196·63 (approx.)	100
No. of Municipal Primary Schools	1,091	270	1,440	352@@
,, Pupils in Primary Schools	517,280	53,700	450,000 (approx.)	156,417@@
,, Municipal Secondary Schools	49	Nil	Nil	35
,, Pupils in Secondary Schools	64,640	Nil	Nil	28,508
,, Student-Teacher ratio	35 to 40 : 1	38 : 1	N.A.	40 : 1
Amount spent annually on education (Rs. in million)	104·15	12·94	100 (approx.)	37·9
No. of General Hospitals	20	24	14	21(*b*)
,, Beds in general hospitals	6,425	N.A.	1,403	N.A.
,, Patients in general hospitals	145,695	N.A.	62,000 (approx.)	N.A.
,, T.B. Hospitals	2	2	1	2
,, Beds in T.B. hospitals	2,130	150	1,113	N.A.
,, T.B. Patients	10,524	4,931	6,269	N.A.
,, Dispensaries	106	23	59	62

N.A.—Not available. @@ Includes Middle Schools. ‡ Includes 36 private cemeteries. (*b*) Includes one communicable disease hospital also.

	BOMBAY	CALCUTTA	DELHI	MADRAS
No. of Patients treated in dispensaries	10,931,769	305,292	2,800,000	2,170,000
,, Clinics	35	9	7 T.B. ; 3 V.D. ; & 3 Lep.	4
,, Patients	451,263	N.A.	21,000	84,706
,, Maternity homes	20	6	8	52
,, Beds in maternity homes	1,339	186	116	437
,, Medical Colleges	4	5	Nil	3
,, Seats in Medical Colleges	400	N.A.	Nil	440
Birth rate in the City	22·9	21·25	20·91	35·53
Death rate in the City	8·5	8·63	5·4	12·10
No. of Child Welfare Centres	6	N.A.	69 + 35 (sub centres)	52
,, Family Welfare Centres	52	32	33 + 68 (,, ,,)	24
,, Doctors in City	N.A.	N.A.	N.A.	N.A.
,, Nurses in City	N.A.	N.A.	N.A.	N.A.
Population-Doctor ratio	N.A.	N.A.	N.A.	N.A.
No. of Swimming Pools	3	10	N.A.	2
,, Hotels — Grade I	122	954	N.A.	1,489
Grade II	734		N.A.	
Grade III	4,502		N.A.	
,, Residential hotels	489		N.A.	N.A.
,, Restaurants and eating houses	9,386	7,884	N.A.	N.A.
,, Shops	106,334	172,090	N.A.	N.A.
,, Commercial establishments	46,602		N.A.	N.A.
,, Factories	N.A.		N.A.	873
Density of population (per sq. km.)	13,362	124 per acre	2,649	20,997
Population of City	6,813,000	3,148,746	4,280,347	2,705,000
No. of Cars	74,949	71,536	N.A.	50,800§
,, Lorries	14,229	N.A.	N.A.	21,263
,, Buses	1,478	1,123	N.A.	8,000§
,, Cycles	N.A.	N.A.	N.A.	N.A.
,, Motor Cycles and Scooters	16,900 ; 329	N.A.	N.A.	58,000§
,, Passengers carried daily by buses	2,970,780	350,990@	N.A.	1,600,000§
,, Passengers carried daily by trains	3,200,000	400,000	N.A.	N.A.
Tallest Building	Hotel Oberoi Sheraton*	New Secretariat Building	Bank of Baroda	LIC Building
Height	127·71 metres	59·43 metres	N.A.	53·95 metres
Longest Road	Swami Vivekanand Road	Lower Circular Road	Ring Road	Anna Salai (Mount Road)
Length in km.	24·14	6·43	55	9·5
Longest Bridge	Road overbridge on the South of Andheri Railway Station	Rabindra Setu (Howrah Bridge)	L. Lajpatrai Marg overbridge	Elphinstone Bridge
Length in metres	501·70	N.A.	838·8	233·46
No. of Telephones	N.A.	135,640 (1965–66)	N.A. N.A.	86,598
Fire Stations	16	17	13	14
Fire hydrants	10,971	N.A.	7,000	N.A.
ADMINISTRATIVE PERSONNEL				
Municipal Commissioner	M. W. Desai	S. Samaddar	B. R. Tamta	V. Karuppan
Mayor	Nanalal Mehta	B. C. Ganguly	Kedar Nath Sahni	—
Public Relations Officer	K. T. Pandit	—	Basudev Sharma	—
Chief Engineer	J. R. Patwardhan	R. K. Banerjee	H. U. Bijlani	G. Nandgopal
Chairman, Standing Committee	V. S. Mahadik	Power vested on the administration	I. D. Mahajan	Nil
,, Improvements Committee	N. P. Thakkar			Nil
,, Works Committee	B. S. Darwalkar			Nil
,, Education Committee	R. W. Raginwar		B. D. Gurg	Nil

N.A.—Not Available. * Tallest building in India. @ Only State Transport Service. § Estimated.

SOME CENTRAL GOVERNMENT ENTERPRISES

FOLLOWING list shows the names of Central Government enterprises, with the year of incorporation and classified according to the ministries under which they fall. Further details of some Central and State Corporations and undertakings follows this list.

Ministry of Agriculture & Irrigation

Name	Year of incorporation/registration
Andaman Plantation Corpn.	†
Banana & Fruit Development Corpn. Ltd.	1964
Cattle-cum-Dairy Corpn.	†
Central Fisheries Corpn.	1965
Central Warehousing Corpn.	1956
Food Corpn. of India	1965
Indian Dairy Corpn.	1971
Kerala Oil Plantation	†
Modern Bakeries of India Ltd.	1965
National Dairy Dev. Board	1965
National Seeds Corpn. Ltd.	1963
Oil Seed Corpn.	†
Sheep & Wool Dev. Corpn.	†
Slaughter Houses Corpn.	1970
State Agro Industries Corpn.	1972
State Cashewnut Corpn.	†
State Farms Corpn. of India Ltd.	1969
State Forest Corpn.	†
State Seed Corpn.	†
Vaccine & Drugs Manufg. Corpn.	†

Ministry of Commerce

Name	Year of incorporation/registration
Cotton Corpn. of India Ltd.	1970
Export Credit & Guarantee Corpn. Ltd.	1957
Handicrafts & Handloom Export Corpn. Ltd. (Subsidiary of S.T.C.)	1958
Indian Motion Pictures Export Corpn. Ltd. (Subsidiary of S.T.C. in 1967)	1963
Jute Corpn. of India	1971
Minerals & Metals Trading Corpn. of India Ltd.	1963
National Textile Corpn. Ltd.	1968
Projects & Equipment Corpn. of India Ltd.	1971
State Trading Corpn. of India Ltd.	1956
Tea Trading Corpn. of India	1973
Trade Dev. Authority	1971

Ministry of Communications

Name	Year of incorporation/registration
Hindustan Teleprinters Ltd.	1960
Indian Telephone Industries Ltd.	1950

Ministry of Defence

Name	Year of incorporation/registration
Bharat Dynamics	1970
Bharat Earth Movers Ltd.	1964
Bharat Electronics Ltd.	1954
Garden Reach Workshops Ltd. (Control acquired by Govt. in 1960)	1934
Goa Shipyard Ltd. (Subsidiary of Mazagaon Dock Ltd.)	1967
Heavy Vehicles Factory	1965
Hindustan Aeronautics Ltd.	1964
Machine Tool Prototype Factory	1953
Mazagaon Dock Ltd. (Control acquired by Govt. in 1960)	1934
Mishra Dhatu Nigam Ltd.	†
Praga Tools Ltd. (Control acquired by Govt. in 1959)	1943

Ministry of Energy

Name	Year of incorporation/registration
Bharat Coking Coal Ltd.†	1970
Coal Mines Authority Ltd.	1972
Indian Consortium for Power Projects	1970
National Coal Dev. Corpn. Ltd.	1956
National Projects Construction Corpn. Ltd.	1957
Neyveli Lignite Corpn. Ltd.	1966
Rural Electrification Corpn. Ltd.	1969
Water & Power Dev. Consultancy Services (India) Ltd.	1969

Ministry of Finance

Name	Year of incorporation/registration
Credit & Guarantee Corpn. of India	1971
Industrial Reconstruction Corpn.	1971
Life Insurance Corpn.	1956

Ministry of Health and Family Planning

Name	Year of incorporation/registration
Hindustan Latex Ltd.	1966

Ministry of Industry & Civil Supplies

A. *Department of Industrial Development*

Name	Year of incorporation/registration
Backward Area Dev. Corpn.	†
Bharat Opthalmic Glass Ltd.	—
Cement Corpn. of India Ltd.	1965
Commercial Vehicle Factory	†
Delhi Small Ind. Dev. Corpn.	1970
Hindustan Coir	1969
Hind Cycles Ltd. (acquired by Govt. in 1974)	—
Hindustan Cables Ltd.	1952
Hindustan Paper Corpn.†	1970
Hindustan Photo Films Manufg. Co. Ltd.	1960
Hindustan Salts Ltd.	1953
Industrial Dev. & Rehabilitation Corpn. of India†	1972
Instrumentation Ltd.	1964
Leather Dev. Corpn.	†
Mandhar Cement Factory	1970
National Co-operative Ind. Dev. Corpn.	†
National Ind. Dev. Corpn. Ltd.	1954
National Instruments Ltd.	1957
National Newsprint & Paper Mills Ltd.	1947
National Small Industries Corpn. Ltd.	1955
National Textile Corpn. Ltd.	1968
Optical Glass Plant	1960
Precision Tool Factory	†
Sambhar Salts Ltd. (Subsidiary of Hindustan Salts Ltd.)	1964
Tannery & Footwear Corpn. of India Ltd.	1969
Tasar Dev. Corpn.	†

B. *Department of Heavy Industry*

Name	Year of incorporation/registration
Bharat Heavy Electricals Ltd.	1964
Bharat Heavy Plates & Vessels Ltd.	1966
Bharat Pumps & Compressors Ltd.	1970
Heavy Electricals (India) Ltd.	1956
Heavy Engineering Corpn.	1958
Hindustan Machine Tools Ltd.	1953
Jessop & Co.	—
Machine Tools Corpn. of India Ltd.	1967
Mining & Allied Machinery Corpn. Ltd.	1965
Richardson & Cruddas (Control acquired by Govt. in 1973)	—
Scooters India Ltd.	1972
Triveni Structurals Ltd.	1965
Tungabh[illegible]ra Steel Products Ltd. (acquired by Govt. in 1967)	1960

Ministry of Information & Broadcasting

Name	Year of incorporation/registration
Film Finance Corpn. Ltd.	1960
National Film Dev. Corpn.	†

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† Undertakings under construction.

Name	Year of incorporation/registration
Ministry of Supply & Rehabilitation	
Rehabilitation Housing Corpn.	1951
Rehabilitation Industries Corpn. Ltd.	1951
Ministry of Petroleum & Chemicals	
Cochin Refineries Ltd.	1963
Engineers (India) Ltd.	1965
Fertiliser Corpn. of India Ltd.	1961
Fertilizers & Chemicals Travancore Ltd. (Control acquired by Govt. in 1963)	1942
Hindustan Antibiotics Ltd.	1954
Hindustan Insecticides Ltd.	1954
Hindustan Organic Chemicals Ltd.	1960
Hindustan Petroleum Corpn. (Formerly ESSO, control acquired by Govt. in 1974)	—
Indian Drugs & Pharmaceuticals Ltd.	1961
Indian Oil Corpn. Ltd.	1959
Indian Petrochemicals Corpn. Ltd.	1969
Indo-Burma Petroleum Co. Ltd.	—
Lubrizol India Ltd.	1966
Madras Fertilisers Ltd.	1966
Madras Refineries Ltd.	1965
National Fertilizers	†
Oil & Natural Gas Commission	1956
Oil India Ltd.	—
Pyrites, Phosphates & Chemicals Ltd.	1960
Ministry of Railways	
Chittaranjan Locomotive Works	1950
Diesel Locomotive Works	1964
Integral Coach Factory	1952
Ministry of Shipping & Transport	
Central Road Transport Corpn. Ltd.	1964
Central Inland Water Transport Corpn.	1967
Cochin Shipyard†	1965
Delhi Transport Corpn.	—
Hindustan Shipyard Ltd.	1952
Mogul Lines Ltd. (Control acquired by Government in 1960)	1938
Shipping Corpn. of India Ltd.	1961
Ministry of Steel & Mines	
A. *Department of Mines*	
Bharat Aluminium Co. Ltd.	1966
Bharat Gold Mines Ltd.	1972
Hindustan Copper Ltd.	1967
Hindustan Zinc Ltd.	1967

Name	Year of incorporation/registration
Iron Ore Board	1972
Metal Scrap Trading Corpn. Ltd.†	1971
Mineral Exploration Ltd.†	1971
Mining & Allied Machinery Corpn. Ltd.	1965
National Mineral Development Corpn. Ltd.	1958
Sikkim Mining Corpn.	1974
Sukenda Nickel Project	1972
B. *Department of Steel*	
Bokaro Steel Ltd.	1964
Engineering Projects (India) Ltd.	1970
Hindustan Steel Works Construction Ltd.	1964
Hindustan Steel Ltd.	1954
Metallurgical & Engg. Consultants, (India) Ltd.	1973
Steel Authority of India (SAIL)†	1972
Ministry of Tourism & Civil Aviation	
A. *Department of Civil Aviation*	
Air India	1953
Indian Airlines	1953
International Airports Authority of India†	1972
B. *Department of Tourism*	
Ashoka Hotel Ltd.	1955
Indian Tourism Development Corpn. Ltd.	1965
Janpath Hotels Ltd.	1963
Ministry of Works and Housing	
Hindustan Housing Factory Ltd.	1953
Housing & Urban Development Corpn.	1970
National Building Constn. Corpn. Ltd.	1960
Department of Atomic Energy	
Electronic Corpn. of India Ltd.	1967
Indian Rare Earths Ltd.	1950
Uranium Corpn. of India Ltd.	1967
Department of Electronics	
Complex for Prod. & R & D of Semi-Conductor Devices	†
Computer Maintenance Corpn.	†
Electronics Trade & Tech.	†
Trans Receivers Prod. Unit	†
Department of Science of Technology	
Central Electronics Ltd.	1974
National Research Dev. Corpn.	1953
Department of Space	
Indian Scientific Satellite Project	1974

GOVERNMENT INDUSTRIAL UNDERTAKINGS

Artificial Limbs Manufg. Corpn. of India, B-4/41, Safdarjang Enclave, New Delhi 110016.

Ashoka Hotel, Chanakyapuri, New Delhi 110021. (Five-star de-luxe hotel).

No. of rooms 485; no. of beds 649. The highest and lowest charge per day : Rs. 440 to Rs. 132.

Executive Director : Lt. Gen. J. T. Sataravala MC (Retd.).

Atomic Reactors, Trombay, Bombay 400071.
(*See* Chapter on '*Atomic Energy*'')

Bharat Aluminium Co., Ltd., *Registered Office :* F-41, N.D.S.E., Part I, New Delhi 110049.

Registered Office : F-41, N.D.S.E., Part I, New Delhi 110049.

The company is involved in constructing and operating the Korba (Madhya Pradesh) and Ratnagiri (Manarashtra) aluminium projects. Brief details of the two aluminium projects are given below :—

Korba Aluminium Project : It consists of a 200,000 tonnes per annum capacity alumina plant, a 100,000 tonnes per annum capacity smelter for production of aluminium metal and facilities for manufacture of aluminium semis. The project has technical assistance from Chemokomplex of Hungary up to the alumina stage and technical and financial assistance from Messrs. Tsvetmetpromexport of the U.S.S.R. for the smelter and fabrication facilities. The 1st stream of the Alumina Plant was commissioned on 21st April, 1973. The Smelter and Fabrication Plant is expected to be commissioned in phases starting from early 1975.

Ratnagiri Aluminium Project : The project which is planned to produce 50,000 tonnes of aluminium metal per annum is being implemented with the assistance of Hungarian firm, Messrs. Chemokomplex. The project sanctioned by the Government in April, 1974 is likely to be completed by the middle of Sixth Five Year Plan.

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† Undertakings under construction.

Chairman-cum-Mg. Director : Lt.-Gen. N. Sen Gupta.

Bharat Coking Coal Ltd., Bhuggatdih Bldg., P.O. Jharia. Dhanbad Dist. Bihar. *Regd. Office :* Sijua, Dhanbad.

It manages the 214 coking coal and 186 non-coking coal mines nationalised by the Govt. of India. These collieries have been reorganised into 86 bigger units.

Chairman & Mg. Director : R. N. Sharma.

Bharat Dynamics Ltd., *Regd. Office :* 10-3-310 Masab Tank, Hyderabad 500028.

The Company was established in July 1970 to manufacture defence equipment, guided missiles, and light precision, mechanical and electronic equipment.

Chairman : Dr. B. D. Nag Choudhuri ; *Mg. Director :* Brig. J. P. Anthony.

Bharat Earth Movers Ltd., Post Bag No. 7, Bangalore 560002.

It has a railcoach factory at Bangalore manufacturing broad gauge integral coaches of various types and an earth moving equipment factory at Kolar Gold Fields manufacturing wheeled earth moving equipment in collaboration with Messrs. WABCO, U.S.A. and Messrs. Radoje Dakic, Yugoslavia and crawler tractors of various types in collaboration with Komatsu Limited, Japan.

Mg. Director : Maj. Gen. O. M. Mani (Retd.) ; *General Manager,* Railcoach Division : K. T. Sampathgopal ; *General Manager,* Earth Mover Division : N. R. Bhargava.

Bharat Electronics Ltd., P. O. Jalahalli, Bangalore 560013.

The Bangalore unit manufactures : (i) *Electronic Equipment :* Low Power transreceivers in the HF, VHF and UHF ranges, high power HF SSB and ISB transmitters, High Stability Communication receivers, medium wave broadcast transmitters upto 100 KW output, Television transmitters and studio equipment, fire control radars, functional radars of various types for naval ships, storm and cyclone warning radars, gun control equipment for tanks, desk calculators etc. (ii) *Components :* Receiving and transmitting tubes numerical indicator tubes X-Ray tubes, TV picture tubes Cathode Ray tubes Germanium and Silicon transistors, Hydrid Microcircuits, integrated circuits, ceramic and Mica capacitors, Quartz crystal filters, transformers and coils.

Their second unit at Ghaziabad (U.P.) manufactures radars and microwave communication equipment.

Chairman & Mg. Director : C. R. Subramanian.

Bharat Gold Mines Ltd., *Regd. Office :* "Red Gauntlet", Oorgaum (KGF) 563120, Karnataka.

This public sector undertaking has taken over the assets and liabilities of the Kolar Gold Mining Undertakings. It becomes the principal gold producing undertaking and expects to step up production. The gold production during 1973-74 was 1,801,877 gms. worth Rs. 15·208 million at IMF rates.

Chairman-cum-Mg. Director : Prof. K. V. Subrahmanyam.

Bharat Heavy Electricals Ltd.,@ *Regd. Office :* 18-20; K. Gandhi Marg, Hindustan Times House, New Delhi 110001.

The Company has under it the following four manufacturing units :—(1) Hardwar (U.P.) ; (2) Hyderabad (A.P.); (3) Tiruchirapalli (T.N.) ; (4) Bhopal (M.P.).

All the four plants have gone into production, producing power generating equipment for various important thermal and hydro power stations.

Chairman & Mg. Director : V. Krishnamurthy ; *Director (Finance) :* S. V. S. Raghavan ; *Director (Personnel) :* R. N. Srivastava ; *Gen. Manager* (Hardwar Unit) : K. L. Puri ; *Gen. Manager* (Hyderabad Unit) : M. R. Naidu ; *Gen. Manager* (Tiruchy Unit) : V. R. Deendayalu ; *Gen. Manager* (R & D Unit) : T. V. Balakrishnan ; *General Manager* (Spares & Services Organisation) : F. Haque ; *General Manager* (Bhopal Unit) : A. S. Padmanabhan.

Bharat Heavy Plate and Vessels Ltd., B.H.P.V., P. O., Visakhapatnam 530012. Andhra Pradesh.

The factory has gone into regular commercial production of sophisticated equipment required by the process industry.

The equipment manufactured include light, medium and heavy columns for absorption, distillation etc., tanks and pressure storage vessels, heat exchangers, pipe fabrication, vessels with agitators and mixers, technological structures, air and gas separation plants, high pressure vessels etc.

Mg. Director : Lt. Gen. C. Sundara Rao.

Bharat Opthalmic Glass Ltd., Durgapur 713210. West Bengal.

Chairman : C. T. Das ; *Mg. Director :* K. H. Parikh.

Bharat Pumps & Compressors Ltd., *Regd. Office :* Naini, Allahabad Dist. Uttar Pradesh.

To cut down imports drastically, the company was established in 1970. It has two projects : one for the production of reciprocating compressors and centrifugal and reciprocating pumps, and the other for the manufacture of high pressure gas cylinders and seamless tubular bodies.

Chairman : K. B. Rao ; *Mg. Director :* V. Surya Rao.

Bokaro Steel Ltd., Bokaro Steel City, Dhanbad Dist., Bihar.

Construction started on 25th January 1965 after an agreement between the Government of India and the Government of USSR. Bokaro is the fourth steel plant in the public sector. It consists of stage I for the production of 1·7 million tonnes of ingot steel and 880,000 tonnes of pig iron and stage II for the production of four million tonnes of ingot steel.

The expansion is being phased in a manner so as to achieve a capacity of 2·5 million tonnes now whilst the four million tonne stage is expected to be reached by 1978.

The feasibility report for expansion to 4·75 million tonnes has been received and put up to the Govt. for approval. This expansion is estimated to cost Rs. 580 million. The cost per ingot tonne of this additional capacity works out to Rs. 800. This will bring down the investment cost to Rs. 2,660 per ingot tonne of steel capacity.

The first blast furnace was commissioned in 1972. In the first year Bokaro had produced 723,187 tonnes of pig iron and exported pig iron worth Rs. 170 million. In October 1973, the second coke oven battery was commissioned.

Chairman : A. C. Banerjee ; *Mg. Director :* K. C. Khanna.

Central Electronics Ltd., NPL Campus, Hillside Rd., New Delhi 110012.

Central Institute of Plastics Engg. & Tools, Guindy, Madras 600032.

It is a training-cum-consultancy-cum-development institute. It offers training in mould making, mould design, mould polishing and plastic processing. Short courses in advanced mould design, mould setting and hand operated injection/compression moulding are also offered.

Chairman : Dr. D. Banerjee ; *Director :* S. Balasunder.

Chittaranjan Locomotive Works, *Head Office & Works :* Chittaranjan 71333 Burdwan Dist., W. Bengal ; *Calcutta Office :* 4, Chittaranjan Avenue, Calcutta 700013.

@ The Government has decided to merge Bharat Heavy Electricals Ltd., and Heavy Electricals India Ltd. into one Company under a single Chairman and Mg. Director.

Chittaranjan Locomotive Works was set up in 1950 for the production of steam locomotives. With the rolling out of the 60th YG class metre gauge steam locomotive in February 1972 the company stopped the production of steam locomotives and has now switched over to the manufacture of electric and diesel locomotives. The company had, up to the end of July, '74, produced 2,950 locomotives — steam 2,351, electric (Both AC and DC) 450, and diesel 227.

At present Chittaranjan is engaged in the manufacture of AC Mixed Traffic Electric Locomotives, DC Freight Locomotives, AC/DC Dual Current Locomotives and the Diesel Shunting-cum-Shuttle Locomotives.

General Manager : S. C. Misra.

Coal Mines Authority Ltd., 15, Park St., 3rd Floor, Calcutta 700016. Other Offices : *Eastern Divn. :* Sanctoria, P. O. Dishergarh, Burdwan Dist., W. Bengal ; *Central Divn. :* Darbhanga House, Ranchi 834001 Bihar ; 10, N. Subhash Rd., Calcutta 700001 ; *Western Divn. :* Bisesar House, Temple Rd., Nagpur 440001 Maharashtra; *Purchase & Sales :* 6, Lyons Range, Calcutta 700001 ; *Liaison Offices :* 402-404, Ansal Bhavan, 16, K. Gandhi Marg, New Delhi 110001 ; B-22, Sector A, Mahanagar, Lucknow, 226001 Uttar Pradesh ; Ramdas Rd., Tikrapara, Bilaspur 495001 Madhya Pradesh ; P. O. Barkakana, Hazaribagh Dist., Bihar.

A holding company set up by the Govt. of India to be in overall charge of planning and production of non-coking coal mines in the country. The National Coal Development Corpn. Ltd. will function as its subsidiary.

Chairman : K. S. R. Chari ; *Director of Finance :* A. K. Ray.

Cochin Refineries Ltd., P. Bag 1751, Cochin 682016. (See Chapter on "Petroleum Industry")

Cochin Shipyard Ltd., P. Bag 1653, Cochin 682015.

Ship building, ship repairs and allied activities are carried on by this shipyard. The company is now engaged in construction of the shipyard with building and repair docks and other facilities which are expected to be ready by 1975 at an estimated cost of Rs. 454 million.

Chairman-cum-Mg. Director : Vice Admiral N. Krishnan, PVSM, DSC ; *Gen. Manager :* S. Kasthuri.

Diesel Locomotive Works, Varanasi 221001. Uttar Pradesh.

This is one of the three production units of the Indian Railways manufacturing diesel engines and main line diesel electric locomotives. Upto June 1974, 705 locomotives (524 BG & 151 MG) had been manufactured. The factory produces 2600 H.P. locomotives for B. G. and 1350 H.P. locomotives for M.G. In addition a 1400 HP (B.G.) diesel Electric Shunter with a continuous tractive effort of 30·3 tonnes has also been manufactured. The DLW has also undertaken to supply 2 generating sets of the value of Rs. 4 million to the Bhabha Atomic Research Centre.

General Manager : Sarup Narain Mathur.

Engineering Projects (India) Ltd., Himalaya House, 23, K. Gandhi Rd., New Delhi 110001.

Functions as a consortium of eight leading Government of India enterprises for executing complete plant/project on turnkey basis in India and abroad. It pools the resources of its member companies for implementing a variety of industrial projects such as steel rolling mills, coke oven plants etc. The company is presently engaged in implementing 17 turnkey projects of the value of approximately Rs. 500 million.

Mg. Director : Mohd. Fazal ; *Gen. Managers :* M. M. Luther ; S. S. Das Gupta ; S. K. Sondhi ; *Gen. Project Manager :* T. R. Anantharaman ; *Gen. Manager (Finance) :* R. K. Khanna ; *Secretary :* A. S. R. K. Sastry.

Engineers India Ltd., PTI Bldg., 4, Parliament St., New Delhi 110001.

This company was set up in collaboration with Bechtel Corporation of San Francisco, U.S.A. but has been functioning as a wholly owned Govt. of India undertaking since mid 1967.

The company provides complete consultancy services such as techno-economic studies, process design, engineering, procurement, construction supervision, etc. for the public and private sectors, especially in petroleum, petrochemical, chemical, fertilizer, synthetic fibre, non-ferrous metallurgy and allied fields. Also undertakes design of heat and mass transfer equipment, engineering of ports and harbours and off-shore structures.

Chairman & Mg. Director : M. S. Pathak.

Fertilisers & Chemicals (Travancore) Ltd., Udyogamandal 683501 Kerala.

Udyogamandal Divn., produces Ammonium Sulphate, Superphosphate, Ultrafos, Ammonium Phosphate, Ammonium Chloride, NPK fertiliser mixtures, etc. ; **Cochin Divn.** produces Urea and will manufacture complex fertilisers after expansion ; **FACT Engg. & Design Orgn.,** provides techno-economic studies, process design, engg., procurement, construction supervision, etc. for chemical and fertiliser plants ; **FACT Engg. Works** caters to the specialised needs of the industry in the field of fabrication of plant and equipment as well as structural and erection works.

Chairman & Mg. Director : B. K. Khanna ; *Finance Manager :* U. R. Padmanabhan ; *Dy. General Manager, Administration — Udyogamandal Division :* K. P. K. Nair ; *Dy. General Manager Technical—Udyogmandal :* P. G. Menon ; *General Manager, FEDO & Cochin Divn. :* Dr. K. S. Gill ; *Dy. Works Manager, FEW :* T. E. Kurien ; *Manager, Engg. FEDO :* P. N. Menon ; *Dy. General Manager, Technical-Cochin Division :* S. R. S. Sastry ; *Dy. General Manager, Administration — Cochin Division :* N. K. Padmanabhan ; *Jt. Marketing Manager :* K. Pushparaj.

Fertilizer Corpn. of India Ltd., F-43 South Extn., Part I, Ring Rd., New Delhi 110049.

The Corporation has five operating fertilizer factories at Sindri (Bihar), Nangal (Punjab), Trombay (Maharashtra), Gorakhpur (U.P.) and Namrup (Assam). These produce nitrogenous, phosphatic and complex fertilisers, as also heavy water, methanol and other industrial products. The Planning & Development Division at Sindri has developed almost a complete range of catalysts required in fertiliser industry.

There are fourteen projects under implementation — Durgapur, Barauni, Namrup expansion, Sindri rationalisation, Gorakhpur expansion, Talcher, Ramagundam, Nangal expansion, Haldia, Korba, Sindri modernisation, Trombay IV, Paradip and Trombay V. These are likely to be completed during the Fifth Five Year Plan and will raise the annual installed production capacity of Fertilizer Corporation of India to 2·32 million tonnes of nitrogen and 0·64 million tonnes of P_2O_5 and 0·27 of K_2O in terms of nutrients. (For production details see chapter on "Fertiliser Industry")

Chairman & Mg. Director : K. C. Sharma ; *General Managers :* K. L. Mehra (Nangal) ; R. K. Ghosh (Sindri) ; R. S. Kachwaha (Trombay) ; K. H. Chaurey (Durgapur) ; M. L. Leekha (Barauni) ; K. V. Antony (Ramagundam) ; A. K.

Mitra (Haldia); P. Chawla (Korba); B. B. Chandra (Namrup) and O. P. Agarwal (Planning & Dev. Divn.); *Dy. General Manager :* K. S. L. Anand (Gorakhpur); *General Project Managers :* Duleep Singh (Talcher); *Project Manager :* B. S. Kakar (Nangal Expansion).

Garden Reach Workshops Ltd., 43/46, Garden Reach Rd., Calcutta 700024.

The Company has its main workshops at Garden Reach, and branch units at Baranagore, Taratala Road, at 61 Garden Reach Road, Belur, Sinthee, West Bengal and at Nagpur in Maharashtra.

The Company has 3 slipways and 2 dry docks. It is one of the major ship-building and ship-repairing yards in India and is fully equipped to undertake all types of marine repairs of sea-going vessels as well as inland and harbour crafts. It builds all types of inland and harbour crafts and the smaller coastal vessels, and is specialising in the building of dredgers, tugs, barges and will be building ocean-going vessels upto 28,000 DWT.

Garden Reach Workshops Ltd. also manufactures electrical overhead travelling cranes, deepwell turbine pumps, marine haulages and conveyors, air compressors, diesel road rollers, pressure vessels, heat exchangers and deck machinery items like cargo winches, windlesses etc.

They are now manufacturing Marine Diesel Engines of three types at Ranchi. It also builds fibre glass boats, power range varying from 225 BHP to 20,000 BHP.

Chairman & Mg. Director : Rr. Adm. Krishan Dev, AVSM.

Heavy Electricals (India) Ltd., Piplani, Bhopal 462001 Madhya Pradesh.

The Bhopal factory is one of the units of BHEL. The other units are located at Hardwar, Hyderabad and Tiruchirapalli. It manufactures the whole range of steam turbines, condensers and feed heating equipment (including for nuclear applications) and associated generators for hydro power stations, butterfly valves for general hydraulic systems, complete electric traction equipment for freight and passenger trains, power transformers, switchgear and power capacitors for power transmission, special transformers and industrial power rectifiers for metallurgical, chemical and traction applications; large AC & DC motors with associated control gear for cement factories, rolling mills, mines and other applications and thyristor power converters for large industrial applications.

Chairman & Mg. Director : V. Krishnamurthy.

Heavy Engineering Corpn. Ltd., Administrative Building Plant, Plaza Rd., P.O. Dhurwa, Ranchi 834004 Bihar.

The Corporation has now established the following projects. **Heavy Machine Building Plant, Ranchi:** (colloboration U.S.S.R.) The plant has a production capacity of 80,000 tonnes of machinery items for steel plants and heavy engineering industries and 25,000 tonnes of structural steel items per year. **Foundry Forge Plant, Ranchi :** (collaboration Czechoslovakia) This plant has the following production capacity per year from its main production shops : Grey Iron Foundry (shaped castings) 33,345 tonnes; Steel Foundry (shaped castings) 40,182 tonnes; Non-Ferrous Foundry (castings) 700 tonnes; Forgings 50,000 tonnes; Grey Iron Steel and Forged Rolls 21,310 tonnes. **Heavy Machine Tools Plant, Ranchi:** (collaboration Czechoslovakia) This plant has an annual production capacity of 278 diverse items of heavy machine tools, weighing 10,000 tonnes approximately. The plant has gone into production of items like radial drilling machines, central lathes, double column planning machines etc.

Chairman : Ranchor Prasad; *Mg. Director :* K. M. Kini; *Exec. Director (FFP) :* D. K. Chakravorty; *Exec. Director (H. M. B. P.) :* D. R. R. Shastri; *Director (Fin.) :* K. K. Rao; *General Manager (H.M.T.P.) :* D. C. Jain.

Heavy Vehicles Factory, Avadi, Madras 600054.

The Heavy Vehicles Factory, is designed as an integrated unit for the manufacture of all major assemblies of the tank. The first 'Vijayanta' medium tank produced in this factory rolled out on 29-12-65 as scheduled and since then, regular production of tanks has been established.

The factory has also established production of armoured recovery vehicles required for the Army.

The planning of the factory has been done in a manner that manufacturing capacity is available not only for the manufacture of tracked vehicles but also for other items of heavy engineering required for military as well as civilian purposes.

General Manager : Maj. Gen. J. R. Samson (Retd.).

Hind Cycles Ltd., 250, Worli, Bombay 400025.

Manufactures Speed King, Norton and Hind brand bicycles and bicycle parts.

Chairman : B. G. Roy.

Hindustan Aeronautics Ltd., Indian Express Building, Vidhana Veedhi, Bangalore 560001.

The Hindustan Aeronautics Limited, came into being on 1st October 1964 by the amalgamation of Hindustan Aircraft Ltd. of Bangalore with Aeronautics India Ltd. It has four constituent units, namely, the Bangalore Complex, the MiG Complex comprising the factories at Nasik, Koraput and Hyderabad, the Kanpur Division and the Lucknow Division.

It is currently manufacturing: (*a*) The Jet ground attack fighter HF-24 (Marut) which has been designed and developed by HAL; (*b*) The Supersonic interceptor MiG 21; (*c*) The Jet fighter Gnat; (*d*) The Jet trainer HJT-16 (Kiran) which has been designed and developed by HAL; (*e*) The Allouette III and Cheetah Helicopters; (*f*) The transport aircraft HS-748; (*g*) The Agricultural Aircraft HA-31 (Basant) which has been designed and developed by HAL; (*h*) Several types of aero-engines and (*i*) Several items of airborne electronic equipment.

The company also undertakes the overhaul of aircraft, aeroengines and allied equipment.

Work on the manufacture of a modified version of the MiG-21 aircraft under licence is progressing.

Development Work : The items under development include variants of the HF-24 aircraft, indigenous helicopter in collaboration with SNIAS, France, HJE — 2500 Engine, 300 KVA gas turbine driven generator set and several items of electronic equipment.

Chairman : Air marshal S. J. Dastur; *Mg. Director* (Bangalore Complex): Air Vice-Marshal A. S. Rikhy; *Mg. Director* (MiG Complex) Air Commodore C. R. Kurpad (Retd.); *Dir. of Finance :* M. C. Sarin.

Hindustan Antibiotics Ltd., Pimpri, Pune 411018 Maharashtra.

This factory came into being as a result of the tripartite agreement between the Government of India, the World Health Organisation and the UNICEF.

It produces antibiotics like penicillin, streptomycin, hamycin, etc. The present capacity of production of penicillin is about 84 mmu. The streptomycin plant is of 80 tonnes capacity.

Another important development is the discovery of antifungal antibiotic hamycin and other new antibiotics useful in plant disease control and veterinary practice by the Research Division of the company.

Chairman (Part-time) : Dr. B. B. Gaitonde ; *Mg. Director :* Vacant.

Hindustan Cables Ltd., Moula Ali Ind. Estate, P.O. Hindustan Cables, Hyderabad 500051 Andhra Pradesh.

Construction of the factory is completed and production of paper insulated underground telephone cables and foam polyethylene insulated telephone cables has been started from April, 1974. It is expected to go into full production during 1976-77.

Project Manager : K. L. Reddi.

Hindustan Coir, P.O. Kalavoor, Alleppey Dist., Kerala.

This powerloom factory is under the Coir Board (Govt. of India) for the production of coir mattings — first of its kind under public sector. Started production on commercial sale on 1st Jan. 1969.

General Manager in Charge : A. N. Ramanna.

Hindustan Copper Ltd., *Regd. Office :* Industry House, 10, Camac St., Calcutta 700017.

Khetri Copper Project, Rajasthan : Is under construction and is estimated to cost Rs. 1,150 million. The project envisages : (*i*) Production of 31,000 tonnes of electrolytic grade copper metal per annum ; (*ii*) Production of about 200,000 tonnes of triple super phosphate per annum.

Some quantity of gold and silver would also be recovered as by-products. The electrolytic flash smelter at the plant is due for commissioning shortly.

Indian Copper Complex, Bihar : The current production of copper metal at Ghatsila is about 13,000 tonnes per annum. The company has plans in hand for the expansion of production of copper metal at this complex to about 20,000 tonnes. A new Concentrator Plant having a capacity of 2,000 tonnes per day has been commissioned at the Mosabani Mine.

Rakha Copper Project, Bihar: Located in District Singhbhum and comprising 3 blocks (*i*) Rakha Mines Block ; (*ii*) Roam Sideshwar ; and (*iii*) Tama Pahar. Work on the first phase development of Rakha Copper Project started in August, 1969. A new concentrator plant at site is nearing completion.

Agnigundala Lead-Copper Project, Andhra Pradesh: Mining has been taken up at Bandalamottu block and Nallakonda block of the Agnigundala mineralised belt. A pilot lead concentrator of 100 tonnes per day capacity is nearing completion.

Dariba Copper Project, Alwar District, Rajasthan : The project with a capacity production of 100 tonnes of ore per day or copper concentrates equivalent to about 600 tonnes of copper metal per year, went into production in August, 1973. Plans for expansion to enable treatment of 250 tonnes of ore per day are under consideration.

Malanjkhand Copper Project, Madhya Pradesh : Soviet assistance to exploit the Malanjkhand deposits in Balaghat District has been concluded. The proposal is to produce 20,000 to 25,000 tonnes of copper metal per year. Plans for this production are being drawn up.

Chairman & Mg. Director : D. K. Dhaon.

Hindustan Housing Factory Ltd., Jangpura, New Delhi 110014.

Main products : Prefabricated components for multistoreyed buildings ; Prestressed concrete electric transmission and street light poles ; P.C.C. beams and trusses for industrial sheds with sheeted roofs ; Hollow core roofing and flooring components ; Prestressed fencing posts ; R.C.C. door and window frames ; Hollow blocks for roofing and walling ; Overhead concrete water storage tanks ; Large concrete panels for large panel house construction ; Prestressed concrete mono-block railway sleepers ; R.C.C. two-block railway sleepers ; Precast R.C.C./P.C.C. Components of bridges ; Vayutan cellular concrete blocks for cold storage and air-conditioned buildings and for light weight partition ; and Reinforced vayutan slabs for roofing and flooring in multi-storeyed buildings ; Machine-made doors, window frames and shutters ; High class furniture and interior decoration work ; Seasoning and chemical treatment of timber.

Mg. Director : K. G. Salvi ; *Devpt. Manager :* G. B. Singh.

Hindustan Insecticides Ltd., Regd. Office : E-3, Ring Rd., Defence Colony, New Delhi 110024.

It has a factory each in Delhi and Alwaye (Kerala) for the manufacture of D.D.T. and B.H.C.

The company has a paid up capital of Rs. 12·547 million. The total capacity of production of the Company at present is 4,088 tonnes per annum of Tech. DDT and 8,176 tonnes of Form. DDT and 3,000 tonnes of Tech. BHC. The factory at Delhi has the capacity of producing 2,744 tonnes of Tech DDT 5,488 tonnes of Form. DDT and at Alwaye the capacity is 1,344 tonnes of Tech. DDT and 2,688 tonnes of Form. DDT as also 3,000 tonnes of Technical BHC per annum, a new chemical used for public health as well as for crop protection.

During the Fifth Plan period (1974-79) the company hopes to add the following plants : 1,600 tonnes per annum Endosulfan project ; 1,800 tonnes per annum Malathion project ; 5,000 tonnes per annum DDT project ; 8,250 tonnes per annum Caustic-chlorine plant for captive use ; a granulation plant for pesticides and a multipurpose plant for organo-phospherous pesticides.

Chairman : C. N. R. Rao ; *Mg. Director :* P. K. Narayanaswamy.

Hindustan Latex Ltd., Nirodh Factory, Peroorkada, Trivandrum 695003 Kerala.

Registered Office : Varikkat House, T.C. 4/485, Kowdiar, Trivandrum 695003 (Under the Ministry of Health and Family Planning.)

The company set up with Japanese collaboration, manufactures 144 million pieces of Nirodh (Rubber condoms) per year.

Chairman : Maj. Gen. T. N. R. Nayar (Retd.) P.V.S.M.

Hindustan Machine Tools Ltd., No. 36, Cunningham Rd., Bangalore 560052.

The Company has five machine tool factories at : (I & II) Bangalore in Karnataka ; (III) Pinjore in Haryana ; (IV) Kalamassery in Kerala and (V) Hyderabad in Andhra Pradesh and three watch factories (I & II)Bangalore in Karnataka and (III) Zainakote near Srinagar in Kashmir.

The factory produces a wide range of machine tools and other items like watches, tractors, die casting, and plastic injection moulding machines, hydraulic presses and press brakes etc.

Export : During 1973–74 HMT exported machines valued at Rs. 24·8 million and watches valued at Rs. 0·4 million. The Company has its own sales-cum-service centres in Luxembourg, Sydney and Melbourne.

Watch Factories: Collaboration : Messrs. Citizen Watch Co., Japan. Production and sale of wrist watches were Rs. 60·7 million and Rs. 59·5 million respectively. It currently produces six varieties of gents' watches *viz.,* Janata, Pilot, Sona, Jawahar and Day-Date Automatic ; two varieties of ladies' watches *viz.,* Sujata and Nutan and one variety of students *viz.,* Tarun.

The Horological Machinery Division in Bangalore has started manufacture of Petermann single spingle automatics and has completed the design of lathes, buffing machines and hand Press.

The second watch factory which was commissioned in October 1972 has a production capacity of 20,000 automatic day and date watches per annum. The IIIrd watch factory in Srinagar assembled Rs. 2·6 million worth of watches during the year.

The Company has its sales and service centres at Ahmedabad, Bangalore, Bombay, Calcutta, Chandigarh, Coimbatore, Delhi, Ernakulam, Hyderabad and Madras & Srinagar.

New Projects : HMT would be manufacturing highly sophisticated machine tools like the numerical controlled (NC) lathes, and NC Vertical Machining Centres for the vast and expanding markets of the developed countries. HMT has already secured orders for export of £ 1·5 million worth NC lathes.

HMT Watch Factory in Bangalore will take up manufacture of main springs, hair springs and shock absorbers in collaboration with Messrs. Citizen Watch Co., of Japan. This project is estimated to cost Rs. 23·1 million.

HMT will be taking up shortly a new line of production, viz., lamp making machines, lamps and lamp components at its unit in Hyderabad in collaboration with the well-known Hungarian firm Messrs. United Incandescent Lamp and Electric Co., Ltd. (TUNGSRAM) in Budapest. The company has given licence to Messrs. Wickman Ltd. of U.K. for manufacture and vending of mini chuckers, a product designed and developed entirely by H.M.T. engineers.

Chairman & Mg. Director : Dr. S. M. Patil.

Executives : M. Nageswara Rao (Director, Finance & Corporate Planning); N. K. Krishnan Kutty (Director, Marketing); K. R. S. Gowda (Executive Director, Bangalore Units); P. S. Banerjee (Executive Director, Pinjore Unit); T. V. Mansukhani (Executive Director, Kalamassery Unit); B. Ramachandra (Executive Director, Hyderabad Unit); K. K. Dhar (Executive Director, Srinagar Unit); R. Yogeshwar (General Manager, Foreign Operations); M. N. Madhav Murty (Officer on Special Duty, Horological Centre); I. K. Amitha (Executive Director, Watch Factory Units, Bangalore); C. S. Satyanarayana (Controller of Finance & Accounts).

Hindustan Organic Chemicals Ltd., P.O. Rasayani, Kolaba Dist., Maharashtra.

A Rs. 200 million project, set up on December 12, 1960 to manufacture a wide range of organic chemicals and intermediates which are the basic material for the manufacture of drugs, dyestuffs, insecticides, plastics and rubber chemicals, etc.

Of the twelve plants envisaged in the first phase of the company's programme, eleven, namely Acetanilide, Meta-Amino-Phenol, Sulphuric Acid, Formaldehyde, Benzene-Hexa-Chloride, Aniline, Nitrobenzene, Nitro Toluene, Hydrogen, Dinitrobenzene, and Monochlorobenzene have gone on stream. The Nitrochlorobenzene plant was expected to be commissioned in early 1974.

The company's expansion and diversification programme involving an outlay of Rs. 400 million has already been approved by the Planning Commission for inclusion in the 5th Five Year Plan.

Chairman : Dr. B. D. Tilak; *Mg. Director :* Dr. P. N. Pandit.

Hindustan Photo Films Mfg. Co. Ltd., Indu Nagar, Ootacamund 643005 Tamil Nadu.

This factory was set up in collaboration with a French firm, Bauchet and Co. It is now in a position to turn out annually 6·15 million sq. mtrs. of photographic film and photographic paper of various kinds. Production of colour films from out of imported jumbo rolls has also commenced in the factory. As an adjunct to the main plant, a Silver Nitrate Plant, a Silver Sludge Recovery Plant and a unit for synthesizing organic chemicals, have also been set up.

Chairman : M. K. Raju; *Mg. Director :* H. S. Narayana Rao.

Hindustan Salts Ltd., Badnor House, Bhagwan Das Rd., P. B. 146, Jaipur 302001 Rajasthan.

The salt sources at Kharaghoda (Gujarat) and the salt mines at Mandi (Himachal Pradesh) are under the administrative control of the company.

The Sambhar Salts Ltd., is a subsidiary of Hindustan Salts Ltd.

Chairman & Mg. Director : K. L. Gambhir; *Secretary :* V. M. Dave.

Hindustan Shipyard Ltd., Visakhapatnam 530005, Andhra Pradesh.

The shipyard has four building berths with a capacity of 15,000 dwt. each, and bulk carriers/tankers upto 25,000 dwt. The capacity of the dry dock constructed at a cost of Rs. 48·2 million is 70,000 dwt.

Hindustan Shipyard has so far built 64 ships of different sizes and types aggregating more than 551,430 dwt.

The foundation stone for the second shipyard was laid in Cochin on 28th April 1972.

Chairman & Mg. Director : S. Balakrishna Shetty.

Hindustan Steel Ltd., P.O. Hinoo, Ranchi 834001, Bihar.

Hindustan Steel Ltd. has four steel plants: the Rourkela. Steel Plant, Bhilai Steel Plant, Durgapur Steel Plant and Alloy Steels Plant, Durgapur.

Chairman : H. Bhaya; *Director (Commercial and Finance) :* S. N. Kaza; *General Managers :* P. K. Kaul (Durgapur Steel Plant), Vacant (Bhilai Steel Plant), Dr. P. L. Agrawal (Rourkela Steel Plant), Gokul Mukherjee (Alloy Steels Plant, Durgapur), B. L. Khatri (Central Coal washeries organisation, Dhanbad).

Rourkela Steel Plant : is situated in Orissa 413 kms west of Calcutta, on the South-Eastern Railway. All the expansion units of Rourkela Steel Plant have been commissioned (Under technical and financial agreement with Government of West Germany.)

Bhilai Steel Plant : is located in Madhya Pradesh on the South-Eastern Railway between Calcutta and Bombay, 260 kms. east of Nagpur.

Durgapur Steel Plant : is situated in West Bengal and lies on the main line of the Eastern Railway between Calcutta and Delhi.

Alloy Steels Plant at Durgapur : is rated to produce 2,250 tonnes of high speed steels, 3,600 tonnes of alloy, tool and die steels, 9,500 tonnes of carbon tool steels, 26,650 tonnes of constructional steels and 18,000 tonnes of stainless steels.

Coal Washeries : The company has four coal washeries at Dugda, Bhojudih and Paterdih. Dugda is 48 kms and Paterdih 16 kms. from Dhanbad in Bihar. In Dugda itself there are two coal washeries. Both have a capacity of 2·4 million tonnes of raw coal. Bhojudih Coal Washery has 2 million tonnes of raw coal input and Paterdih also 2 million tonnes of raw coal.

(Also see Chapter on Steel Industry)

Hindus[illegible] Steel Works Construction Ltd., 5/1, Commissariat Rd., Hastings, Calcutta 700022.

The company undertakes entire responsibility for the construction of steel plates; better and closer co-ordination of various activities during the construction phase;

conservation of trained personnel for steel plant construction programmes. The diversified activities of the company cover the existing as well as the new steel plants under construction. The company has also undertaken construction of several major industrial projects to utilise its spare capacity and resources and to go in for heavier construction programmes in the subsequent Five Year Plans.

Chairman : M. S. Lal ; *Mg. Director :* B. G. Baljekar.

Hindustan Teleprinters Ltd., G. S. T. Rd., Guindy, Madras 600032.

This company was set up in collaboration with Ing. C. Olivetti & C., Sp. A., of Italy. The factory manufactures tape and page models of teleprinters, printing reperforator attachment, transmitter attachment, independent automatic tape transmitters in Latin, Devanagari and Arabic scripts.

Chairman and Mg. Director : G. U. Menon.

Hindustan Zinc Ltd., 6, New Fatehpura, Udaipur 313001, Rajasthan.

The units administered by this company are : (*i*) the Zawar Mines. At present the mine produces about 1,600 tonnes of ore containing both lead and zinc. The ore is processed in a mill to produce lead and zinc concentrates. (*ii*) Tundoo Lead Smelter near Katrasgarh, Dhanbad. HZL has undertaken first phase modernisation of this plant to increase the capacity to 3,600 tonnes of lead and about 5 tonnes of silver per annum which is expected to be completed soon. (*iii*) An Electrolytic Zinc Smelter at Debari, Udaipur. The Zinc Smelter has been designed to produce 18,000 tonnes of zinc metal, about 29,000 tonnes of sulphuric acid and 72 tonnes of cadmium. (*iv*) Maton Rock Phosphate Mine near Udaipur to produce 180,000 tonnes of ore—which will give 90,000 tonnes of beneficiated rock phosphate. (*v*) A Rs. 212·4 million Electrolytic Zinc Smelter at Visakhapatnam to produce 30,000 tonnes of zinc and 10,000 tonnes of lead per annum. Initially the concentrate needed for this smelter will be imported. Hindustan Zinc Limited has also plans to develop new lead zinc mines in Zawarmala, Baroi, Rajpura-Dariba etc. in Rajasthan and Sargipali in Orissa.

Chairman-cum-Mg. Director : A. N. Banerjee.

Hotel Janpath, Janpath, New Delhi 110001.

This Hotel is a unit of India Tourism Development Corporation having 214 rooms. It is moderately priced and very centrally situated.

Manager : R. S. Jolly.

Indian Drugs and Pharmaceuticals Ltd., N-12 & 13, South Extension (Part I), Ring Rd., New Delhi 110049.

It has three plants under its control, Antibiotics Plant at Rishikesh, Synthetic Drugs Plant at Hyderabad and Surgical Instruments Plant at Madras. The plants have been set-up with the help of the Government of U.S.S.R.

Antibiotics Plant at Rishikesh (Uttar Pradesh) has been set up to produce penicillins, sodium & procaine, streptomycin, tetracycline, oxytetracycline and nystatin at an estimated cost of Rs. 285 million. Its products are already in the market.

The Synthetic Drugs Plant at Hyderabad set up at a cost of Rs. 277 million synthesises about 2,000 tonnes of 27 types of synthetic drugs starting from basic stages. It serves the prime needs of the country with regard to synthetic drugs. Surgical Instruments Plant, Madras set up at a cost of Rs. 46·40 million manufactures various types of surgical instruments of high quality.

Managing Director : Dr. L. K. Behl.

General Manager (Acting), Antibiotics Plant, Rishikesh : N. S. P. Chawla ; *General Manager (Acting),* Synthetic Drugs Plant, Hyderabad : A. Ramachandran ; *General Manager,* Surgical Instruments Plant, Madras : R. Sundaracharlu.

Indian Oil Corporation Ltd. (See Chapter on "Petroleum Industry").

Indian Rare Earths Ltd., Pil Court, 111, M. Karve Rd., Bombay 400020. (Also see Chapter on "Atomic Energy").

Mg. Director : P. Muralidharan ; *Chief Project Manager :* J. Y. Somnay ; *F. A. & C.A.O. :* N. D. Hansotia.

Manager, Rare Earths Division, Alwaye : B. P. Nair ; *Chief Administrative Officer,* Minerals Division, Quilon : S. Ganapathy ; *Dy. Works Manager,* Thorium Factory, Trombay : G. K. Kelkar.

Indian Scientific Satellite Project, A1-6, Peenya Electronic Industrial Estate, Peenya, Bangalore 662140.

Set up under the Indian Space Research Organisation of the Deptt. of Space, Government of India to design, develop and fabricate India's first artificial space satellite to be launched from the Soviet Union sometime in 1975. The satellite weighing 330 kgs. will be sent up in the near circular of 600 kms. altitude at an inclination of 51°. The satellite carries a number of sophisticated electronics systems of telemetry, telecommand and communications and for generation of power using silicon solar cells with Ni-Cd batteries. It also carries three scientific experiments for investigations in the fields of X-ray Astronomy, Solar Physics and Aeronomy. The X-ray Astronomy experiment will detect and measure the X-ray emission from the Stars in the energy range 2-100 keV. The solar Physics experiment is to attempt the detection of emission of neutrons in the energy range upto 500 MeV and gamma rays from 200 keV to 20 MeV. The Aeronomy experiment will detect the presence of supra thermal electrons as well as investigate UV background at 600 kms. altitude.

With the launching of this satellite, India would gain competence in the field of satellite technology which will be used for building satellites for the purposes of communications, earth resources survey, meteorology etc.

Director : Prof. U. R. Rao.

Indian Telephone Industries Ltd., Dooravani Nagar, Bangalore 560016, Karnataka.

Regional Offices, Sales & Service : 62/63, "Advent", 12-A, Gen. J. R. Bhosale Marg, Bombay 400001 ; United India Life Assurance Bldgs., 22, Chittaranjan Ave., Calcutta 700013 ; 3, Tolstoy Marg, New Delhi 110001 ; Kannamai Bldgs., 122, Mount Rd., Madras 600006.

The factory manufactures all types of telecommunication equipment, telephones, transmission equipment, testing equipment, automatic road signalling equipment, etc.

Two new units — one for transmission equipment and another for manufacture of telephone instruments have been set up at Naini, Allahabad. A unit for manufacture of spare parts for telephone instruments has been set up in Srinagar. A telephone switching factory is being set up at Rae Bareli with an investment of Rs. 200 million for the manufacture of exchange equipment.

Exports : The total value of exports during 1973-74 amounted to Rs. 4·4 million as compared to Rs. 4·1 million in the previous year.

Chairman & Mg. Director : I. K. Gupta ; *Gen. Manager (Production) :* C. S. S. Rao ; *Gen. Manager (Technical) :* V. R. Venugopal ; *Financial Adviser :* R. R. Savoor.

Instrumentation Ltd., Kota 324005, Rajasthan.

The largest manufacturers of Industrial Process Contro Instruments in India. The product-mix of the company includes a variety of sensors and transmitters, indicating, controlling and recording instruments for the measurement of temperature, pressure, flow, level and other process variables in different measuring systems such as magneto-electric, electronic, ferrodynamic and the pneumatic range of products.

Manufacture of valves and allied items with technical collaboration of Japan has been taken in hand by the company at its second unit at Palghat (Kerala) which would go into production by 1975.

The company provides specialised turn-key services of instrumentation to steel plants, thermal power stations, fertilizer and chemical based plants and other process industries. It has developed capabilities to design, fabricate, and commission plants with indigenous know-how.

Mg. Director : Brig. D. Swaroop, A.V.S.M.

Integral Coach Factory, Perambur, Madras 600038.

This factory was constructed in 1952 in collaboration with Swiss Car and Elevator Manufacturing Corporation Limited, Schlieren, Zurich, Switzerland.

The factory meets the major requirement of passenger coaches of the Indian Railways. It consists of two divisions, Shell and Furnishing. The output is 600 coaches per annum. So far the factory has turned out 10,265 shells and furnished 8,290 coaches.

The factory has also exported bogies to Burma, Thailand, and coaches to Taiwan and Zambia. Order for export of coaches to Philippines and bogies to Taiwan are under execution. The annual turnover is approximately Rs. 1,240 million.

General Manager : J. Matthan.

Iron Ore Board, 9th Fl., Vandhna, 11, Tolstoy Marg, New Delhi 110001.

An autonomous organisation set up by the Govt. to ensure proper regulation, conservation and development of iron ore. It advises steps to be taken to promote export of iron ore consistent with resources and requirements of steel industry. It will co-ordinate the activities of the steel plants and mining agencies in both the public and private sectors and will also create an infrastructure for iron ore mining in liaison with railways, ports, State Governments and financial institutions.

Chairman : R. C. Dutt.

Jessop & Co., 63, N. Subhas Rd., Calcutta 700001.

Manufacturers of structural and bridge steel work, railway wagons and coaches, electric multiple unit coaches, machine tools, electric cranes, leaf and coil springs, vibratory rollers, aerial ropeways, earth moving equipment etc.

Mg. Director : R. J. Shahaney.

Kolar Gold Mining Undertakings, Kolar Gold Fields, P.O. Oogaum, Karnataka.

Formerly a British company the mines were taken over by the Government of India on 1st December 1962.

Bharat Gold Mines Ltd. took over the management on 1st April, 1972 in order to step up production. (See under Bharat in this list.)

Lubrizol India Ltd. (*See Chapter on Petroleum Industry*).

Machine-Tool Prototype Factory, Ambernath 421501, Maharashtra.

Estd. 1953. The Factory, apart from meeting vital defence requirements, has established production of several types of precision machine tools.

General Manager : V. V. Karmarkar.

Mandhar Cement Factory, Mandhar, Near Raipur, Madhya Pradesh.

Project cost Rs. 50 million; Employs 650 persons; Production capacity: 600 tonnes per day. Actual production during 1973-74 : 153,390 tonnes.

Chief Executive : B. V. Raju.

Mazagaon Dock Ltd., Mazagaon, Bombay 400010.

A ship-building, ship-repair and general engineering concern the company can build various types of ships—like frigates, corvettes, submarines, passenger ships, passenger-cum-cargo ships, dredgers, tugs, barges, trawlers, etc. — up to 20,000 dwt. It has four building berths, three dry docks and an impounded wet dock Kasara Basin.

The first leander class frigate I.N.S. Nilgiri has been delivered to the Navy in 1972. The second was delivered on 23-11-74, The third and fourth frigates are under construction and order for three more frigates have been placed by the Navy. The company has also built for the Navy a bucket dredger, two inshore minesweepers, two *Avcat* tankers (designed to carry aviation fuel) and several other ships and harbour crafts.

The company's production turn-over rose from Rs.163·61 million in 1970-71 to Rs. 308·73 million in 1973-74.

Chairman and Mg. Director : Rear-Admiral E. C. Kuruvila, PVSM; *Secretary/Gen. Manager (Commercial) :* Cdr. N. K. Sawhney, I.N. (Retd.).

Metallurgical & Engineering Consultants (India) Ltd., Ranchi 834002, Bihar.

Estd. in March 1973 as a subsidiary to Steel Authority of India Ltd. It took over the functions of the Central Engg. & Design Bureau, the then consultancy wing of Hindustan Steel Limited. Known as MECON it is now working on the following major assignments :

MECON is fully equipped to undertake the design and supply of custom-built rolling mills and auxiliary equipment for ferrous and non-ferrous industries under an agreement with Wean-United, U.S.A.

Chairman : A C. Banerjee; *Mg. Director :* K. C. Mohan; *Jt. Mg. Director :* M. B. Silgardo.

Mining & Allied Machinery Corpn. Ltd., P.O. Durgapur, West Bengal; *Calcutta Office :* 77, Park St., Calcutta 700016.

Mg. Director : A. C. Chatterjee; *General Manager (Sales) :* S. C. Banerjee; *Jt. FA & CAO :* H. K. Chakraborty.

Modern Bakeries (India) Ltd., 25-B, Local Shopping Centre, Pashchimi Marg, Vasant Vihar, New Delhi 110057.

It was registered in October, 1965 and has bakery units at Ahmedabad, Bangalore, Bombay, Calcutta, Cochin, Delhi, Hyderabad, Kanpur and Madras. The capacity of each unit is about 36,000 loaves of 400 grams per day excepting those of Bombay and Calcutta where the rated capacity is 72,000 loaves of 400 grams per day.

New units are being set up at Chandigarh, Ranchi, Indore and Bhubaneswar. The units at Chandigarh and Ranchi are expected to go into production in 1975 and Bhubaneswar and Indore in 1976. The Company has also developed know-how for manufacture of *Naan* and was expected to market this product in end 1974. It has also launched a new product Modern Peanut Butter.

All the bakery products produced by the Company are fortified with Vitamin A, Vitamin B Complex (Riboflavin, Thiamine & Niacin), Iron and Protein Isolate.

Chairman : Malik Mohmad Mushir Ahmed Khan; *Mg. Director* [illegible]rig. C. C. Uthup.

Mogul Line Ltd., 16, Bank St., Bombay 400001.

Operates Haj pilgrim service between Bombay and Jeddah, regular cargo-cum-passenger service between Bombay and Red Sea ports, Bombay and West Asia gulf

ports, cruises to Malaysia and Singapore, Konkan passenger service, coastal cargo services and overseas tramp service.
Chairman : Admiral S. M. Nanda ; *Mg. Director :* J. G. Saggi.

Nagaland Pulp & Paper Co. Ltd., P. B. 18, Jorhat, Assam.

National Dairy Development Board, Anand 388001 Gujarat.

To speed up the overall development of milk production, procurement, processing and marketing in the country, the Board offers (*a*) technical services for development of dairy and allied projects ; (*b*) man-power development services ; (*c*) bulk procurement services ; (*d*) specialised dairy engineering services ; (*e*) consultation services on dairy and allied operations and (*f*) international liaison.
Chairman : Dr. V. Kurien.

National Fertilizers Ltd., 27, Community Centre, East of Kailash, New Delhi 110024.

National Instruments Ltd., 1/1, Raja S. C. Mullick Rd., Jadavpur, Calcutta 700032.

This company manufactures and repairs at its Instruments Plant at Jadavpur, Calcutta, precision instruments of all types — surveying, meteorological, optical instruments, pressure and vacuum gauges and high precision defence instruments.

National Newsprint & Paper Mills Ltd., Nepanagar, Nimar Dist., Madhya Pradesh.

The yearly rated capacity of the first and the second Paper Machine is 30,000 tonnes and 37,500 tonnes respectively.

Chairman-cum-Mg. Director : N. B. Das Gupta.

(Also see Chapter on "Paper Industry".)

Neyveli Lignite Corpn. Ltd., Neyveli 607801, South Arcot Dist., Tamil Nadu.

This is a Rs. 1,973 million project. The Integrated Project envisages the mining ultimately of about 6·5 million tonnes of lignite per annum, the present rate being about 3·6 million tonnes per annum.

The 600 M.W. Thermal Power Station at Neyveli is the largest and the first lignite fired Thermal Power Station in India and Asia located close to the pit-head.

The Urea Plant at Neyveli is the biggest of its kind in the world and the first to gasify lignite to produce Urea in Asia. The Briquetting and Carbonisation Plant at Neyveli produces carbonised briquettes (Trade name: LECO) a smokeless domestic fuel from lignite.

The following tar products are also produced in the B & C plant : tar, neutral oil, carbolic acid (phenol), ortho cresol, meta-para cresols, xylenols and polyvalent phenols.

Optical Glass Plant : Central Glass and Ceramic Research Institute, Calcutta 700032.

The pilot plant located at the Institute produces the major types of optical glass required in the country. The plant has so far supplied optical glass worth approximately Rs. 5·6 million to consumers.

Pyrites, Phosphates & Chemicals Ltd., *Registered Office :* Dr. Joseph House, Canal Rd., Dehri-on-Sone, Rohtas Dist., Bihar.

Branch Offices : (*i*) Office of the Chief Mining Engineer, Mining Project, P.O. Amjhore, Rohtas Dist., Bihar. (*ii*) Office of the Resident Representative, D-21, N.D.S.E., Part-II, New Delhi 110049. (*iii*) Office of the Assistant Purchase Officer, No. 9, Syed Amir Ali Ave., Fourth Fl., Calcutta 700017. (*iv*) Office of the Project Officer-Cum-Mines Manager, Exploratory-cum-Production Mining Project, Saladipura, P.O. Khandela, Sikar Dist., Rajasthan. (*v*) Office of the Controlling Officer, Exploratory Mining Project, Maldeota Phosphate Deposit, 90-D, Race Course, Dehra Dun 248001 Uttar Pradesh.

Mining Programme : *Pyrites :* (*i*) The mine at Amjhore has been developed to be able to produce 400 tonnes per day of pyrites to feed the acid plant at Sindri.

(*ii*) Exploratory-cum-production mining at Saladipura has been undertaken which will block out nearly 3 million tonnes of pyrite ore and provide necessary data for drawing up feasibility report and detailed project report for a major fertilizer complex to be set up in Rajasthan. The consultants, Messrs. R.T.Z. Consultants Ltd. have submitted the feasibility report on Saladipura pyrite deposit, which is under consideration of the Government.
Rock Phosphate : Exploratory mining work is being conducted at Maldeota in Dehra Dun district (U.P.). It will provide necessary data to find out economic viability to exploit this rock phosphate deposit.
Mg. Director : T. N. Jaggi.

Rajasthan Atomic Power Project. (*See Chapter on "Atomic Energy."*)

Richardson & Cruddas (1972) Ltd., Byculla Ironworks, Bombay 400008.

Branch Offices & Works : Post Box No. 1276, Madras 600001 ; MIDC Ind. Estate, Hing Rd., Nagpur ; Hindusthan Bldgs., 4, Chittaranjan Ave., Calcutta 700013.

Established in 1858, this company became a wholly owned Government of India Undertaking from 1-4-73.

Manufactures medium and heavy structures for factory bldgs., thermal power stns., steel plants, railway bridges, points and crossings, rubber and sugar machinery in its Bombay workshop and also has a cast iron foundry for producing hand and machine moulded high grade castings. In Madras the firm manufactures structures and also has a division for public health and refrigeration. In Nagpur it manufactures transmission line towers and light structures. The factories are being modernised with a large diversification programme. A new project for the manufacture of chemical process equipment and sophisticated rubber machineries has been taken up.
Chairman, R. N. Sen ; *Mg. Director,* T. S. Kannan.

Salem Steels Ltd. : Rly. West Colony, Salem 636005. Tamil Nadu.

This company is a fully owned subsidiary of the Steel Authority of India Ltd., established to implement the Rs. 3,400 million Salem Steel project to manufacture 195,000 tonnes of sheets and stripes comprising 70,000 tonnes of stainless steel, 75,000 tonnes of electrical steel and 50,000 tonnes of special steel.

Mg. Director : V. Subramaniam.

Scooters (India) Ltd., P. B. 1, P.O. Sarojininagar, Lucknow 226008.

Produces 100,000 two-wheeler scooters, and 30,000 three-wheeler Lambro carriers per annum in collaboration with Innocenti, Milano (Italy). Production commenced in August, 1974.

Mg. Director : S. Soundararajan ; *General Managers :* Brig. V. K. Ghai, V. Krishnan, M. Vardarajan.

Shipping Corpn. of India Ltd., *Registered Office :* Shipping House, 229/232, M. Cama Rd., Bombay 400021.

Branch Offices : CALCUTTA : Shipping House, 13, Strand Rd., Calcutta 700001 ; NEW DELHI : Chandralok Bldg., Janpath, New Delhi 110001 ; MOMBASA : Renmar House, Kilindini Road, P.B. 82364, Mombasa ; LONDON : 37-39, Lime St., London, EC3M 7AY.

Number of vessels : Cargo vessels 69, passenger-cum-cargo 6, bulk carriers 13, timber carrier 1, bulk coal carriers 3, tankers 12, ore-oil-grain carriers 8. Total 112.

Total g.r.t. : 1,706,305 ; d.w.t. 2,723,915.

Chairman & Mg. Director : Admiral S. M. Nanda.

Steel Authority of India Ltd. (SAIL), Regd. Office: 14th Floor, Hindustan Times House, 18/20 K. Gandhi Marg, New Delhi 110001.

A holding company set up by the Govt. of India for steel and associated input industries to formulate and recommend to the Govt. a national policy for the development of iron and steel and related input industries and to advise it on all policy and technical matters.

Chairman : M. A. Wadud Khan ; *Full-time Directors,,* R. P. Billimoria (*Personnel*), M. P. Wadhawan (*Finance*) A. C. Banerjee (*Technical*), Dr. N. C. B, Nath (*Commercial*) ; *Secretary :* A. R. Sankaranarayanan. (*Also see Chapter on 'Steel Industry'*).

Sukinda Nickel Project, (A Joint enterprise of Govt. of India and Orissa State Govt.), 9, Forest Park, Bhubaneshwar, 751009 Orissa.

Tarapur Atomic Power Project. (*See Chapter on 'Atomic Energy'.*)

Trade Development Authority, Bank of Baroda Bldg., 16, Parliament St., New Delhi 110001.

Established to promote selective development of exports of non-traditional products. In discharge of this function, TDA identifies technically competent and commercially viable production units in large, medium and small sectors in the country, assists in the expansion of export oriented production facilities, undertakes product development/adaptation and helps raise the technological levels of selected industrial exports. Its current product range includes selected engineering, plastics and consumer items while the market range covers USA, Canada, U.K., Western Europe, Japan. Australia, New Zealand and Yugoslavia.

It provides entrepreneurial guidance, handles enquiries and disseminates information in foreign trade to exporters and other interested parties. It has also set up foreign offices to provide on-the-spot, personalised services. The addresses are : Trade Development Authority of India, 6, Frankfurt/Main, Heiligkreuzgasse 14, W. Germany ; Trade Development Authority of India, 666, Fifth Ave., 53rd St. New York, N.Y. 10019, U.S.A.

Executive Director : A. C. Banerjee.

Triveni Structurals Ltd., Naini, Allahabad Dist., Uttar Pradesh.

It is a joint enterprise of Government of India and Messrs. Voest, Linz, Donau, Austria. The main products of the works are : Building structures, towers, bridges, pressure vessels, penstocks and storage tanks, crucibles, blast furnace and plate work, hydraulic structures, cranes, mechanical equipment.

Tungabhadra Steel Products Ltd., P.O. Tungabhadra Dam, Bellary Dist., Karnataka.

Production : Steel structures, including gates, hoists, gantries, penstocks and rubber seals required for river valley projects, cranes, pressure vessels, heavy structurals and galvanised high tension transmission line towers.

A galvanising plant with a capacity of 3,000 tonnes per annum working in a single shift has been commissioned. The company has its own design branch, grey iron foundry, rubber seal section, X-ray and photographic section.

It has entered into a collaboration with Messrs. Est. Neyrpic, Grenoble, France for the designing and fabrication of hydraulic gates.

STATE-OWNED OR STATE-AIDED

ANDHRA PRADESH

Agro Subsidiary Ltd., 10–2–3, Intekhabmanzil, A.C. Guards, Hyderabad 500004.

A marketing organisation set up by the A. P. State Agro-Industries Corpn. Ltd. with the chief object of standardising oil engines and electric motor pump sets manufactured in the State and arranging their supply to the farmers at competitive rates. It also offers good after-sales service facilities to the loanees.

Mg. Director : P. M. Vinayak Rao.

Andhra Pradesh Automobiles Tyres & Tubes Ltd., B-1-174, Fateh Maidan Rd., Nizam Sugar Factory Bldg., Hyderabad 500004.

Andhra Pradesh Govt. Power Alcohol Factory, Shakarnagar, Nizamabad Dist.

Chief Executive Officer : G. R. Nair, I.A.S.

Andhra Pradesh Paper Mills Ltd., *Regd. Office :* Rajahmundry 533101.

Administrative Office : Shreenivas House, Hazarimal Somani Marg, Fort, Bombay 400001.

The present production capacity is 200 tonnes per day. The Mills produce mainly writing, printing and wrapping papers.

Andhra Scientific Co. Ltd., R. Tagore Rd., P. Box No. 26, Machilipatnam 521001.

Manufactures equipment for laboratories, research institutions, hospitals etc.

Authorised Controller : Col. D. M. Samy.

Andhra Pradesh Steels Ltd., B-1-174, Fateh Maidan Rd., Hyderabad 500004.

Gangappa Cables Ltd., Uppal Rd., Hyderabad 500039. A Joint member with the Andhra Pradesh Industrial Development Corpn. to manufacture and sell electrical winding wires (super enamelled and paper covered) in copper and aluminium.

Chairman : Anil De ; *Mg. Director :* T. G. V. Naidu.

Government Ceramic Factory, Gudur, Nellore Dist.

The factory produces sanitaryware and L.T. Electrical Insulators.

Hyderabad Chemical & Fertilizers Ltd., Baitul-Zafar, 3-6-100, Bashir Bagh, Hyderabad 500029.

Factory : Maula Ali, Hyderabad 500040.

Manufactures *Acids,* (1) Sulphuric Acid Commercial Grade with 50 tonnes capacity per day. (2) Battery Grade Acid ; *Fertilizers :* (1) Superphosphate, (2) Mixed Fertilizers for all food and cash crops, both with a capacity of 150 tonnes per day.

Chairman : E. V. Ram Reddy ; *Mg. Director :* P. K. Doraiswamy.

Indo-Nippon Precision Bearings Ltd., Moula Ali, Hyderabad 500040.

Established in 1964 by the Govt. of Andhra Pradesh to manufacture ball, taper & cylindrical roller bearings in collabo[illegible]n with Koyo Seiko Co. Ltd., Osaka (Japan). The factory was inaugurated in Aug. 1970. Presently, it produces 1·5 million pcs. of bearings against the licensed capacity of 2·678 million pcs. per annum.

Mg. Director : Brig. C. L. Seshagiri, AVSM (Retd.).

Praga Tools Ltd., 6–6–8/32, Kavadiguda Road, Secunderabad 500003.

The Company produces machine tools and allied accessories, forgings for auto and diesel spares and rail-road components, defence items, etc.

Chairman : D. S. Nakra ; *Mg. Director :* Brig. T. A. Abraham.

Republic Forge Co., Ltd., Moula Ali, Hyderabad 500040. The Company manufactures precision drop forgings for railways, automobiles, defence and open forgings for high pressure vessels and fertiliser plants.

Chairman : S. R. Ramamurthi ; *Mg. Director :* S. Anandram, I.P.S.

Singareni Collieries, Meher Manzil, Red Hills, Hyderabad 500004.

Coal is mined from the coal fields at Kothagudem, Yellandu, Rudrampur, Belampalli, Mandamari, Ramakrishnapur and Ramagundam.

Production of coal during 1973-74 was 5·31 million tonnes as against 5·04 million tonnes in 1971-72.

Chairman-cum-Mg. Director : B. N. Raman, I.A.S.

ASSAM

Aseb Meter Works, Short Round Rd., Shillong 793001.
An Assam State Electricity Board enterprise. Manufactures single phase house service meters and polyphase meters.

Assam Gas Co., Ltd., Duliajan.

Utilisation and distribution of natural gas available from the oil and gas fields in Assam as feedstock for petrochemical industries and as industrial fuel for production of power, manufacture of fertiliser and tea through a compressor-pipeline network.

Chairman : M. N. Phukan ; *Mg. Director :* S. D. Phene, I.A.S.

Jyoti Chitraban (Film Studio) Society, Kahilipara, Gauhati 781005.

The basic objective is to encourage private film producers to undertake production of films at the minimum cost. A substantial part of the project has been completed.

The total expenditure involved in the execution of this project amounts to Rs. 2·8 million approximately.

North Eastern Industrial & Technical Consultancy Organisation Ltd. (NEITCO), P. Box No. 11, G. S. Rd., Ulubari, Gauhati 781007.

Jointly set up by the Central and State level financial institutions, development corporations and leading banks to provide technical, financial & managerial consultancy services for the industrial development of north eastern region of India.

Chairman : V. V. Chari ; *Mg. Director :* P. C. Patnaik.

BIHAR

Bihar State Superphosphate Factory, P.O. Sindri Institute, Dhanbad Dist.

Installed capacity of plants : (*i*) 10 tonnes of single superphosphate per hour ; (*ii*) 25 tonnes of 98 per cent sulphuric acid per day.

At present the factory produces about 18,000 tonnes of superphosphate a year.

Gen. Manager : P. N. Verma.

Electric Equipment Factory, Tatisilwai, Ranchi 834001.

This factory is a unit of the Bihar State Industrial Development Corporation Ltd.

High Tension Insulator Factory, P.O. Namkum, Ranchi 834010.

This factory has been set up by the Government of Bihar with the technical collaboration of Czechoslovakia. The present installed capacity is 2,400 metric tonnes per annum with the varying range of production as transmission line insulators upto 220 KV, bushings and Pin & Post insulators upto 33 KV besides L.T. Pin, Shackles and Guy insulators.

GUJARAT

Gujarat Alkali & Chemicals Ltd., Harikripa, Alkapuri, Vadodara 390005.

Located at Jawaharnagar, Vadodara, the plant will have an annual capacity of 37,245 tonnes Caustic Soda, 33,000 tonnes of liquid chlorine, 15,000 tonnes of Hydrochloric acid.

Chairman : J. J. Mehta ; *Mg. Director :* S. J. Coelho.

HARYANA

Haryana Breweries Ltd., *Regd. Office :* 49th KM Stone, G. T. Rd., Murthal (Sonepat).

This project, set up with Danish co-operation, has been streamlined since Feb.-Mar. 1974. It has introduced the first brand of beer 'Rosy Pelican'.

Mg. Director : M. D. Asthana, I.A.S.

Haryana Television Ltd., 510, Ansal Bhavan, 16, K. Gandhi Marg, New Delhi 110001. *Factory :* 12, Sector-6, Faridabad 121004.

A joint sector project to manufacture 5,000 TV sets per annum. Production started in Jan. 1975.

Chairman : S. K. Misra ; *Mg. Director :* S. S. Beriwala.

HIMACHAL PRADESH

Himachal Government Rosin & Turpentine Factory, Nahan.

From crude resin, the factory manufactures turpentine oil grade II (ISI) and rosin high grades of international repute. The gum of pine trees is obtained from forests of Himachal Pradesh. They also manufacture high quality varnish.

Gen. Manager : M. S. Dod, I.A.S.

Nahan Foundry Ltd., Nahan, Sirmur Dist.

Production consists of improved type of sugar-cane crushers, bullock as well as power driven, wheat threshers, mono-block pumps, electric motors from 3 h.p. to 15 h.p. and C. I. castings to buyers specifications.

Chairman : Dr. Y. S. Parmar ; *Gen. Manager :* P. K. Mandal.

JAMMU & KASHMIR

Council of Scientific & Industrial Research, Drug Research Laboratory, Raj Bagh, Srinagar 190001.

The present production and the sales effected are valued at Rs. 1,161,250 and Rs. 1,334,375 respectively during 1973-74.

Drug Research Laboratory (CIMPO), (Factories & Farms), (CSIR), Canal Rd., Jammu Tawi 180001.

Belladonna concentrated extracts, belladonna consumer goods, *i.e.*, belladonna plaster etc., diosgenin, menthol and dementholised oil, Pyrethrum Oleoresin cedarwood oil, ergot seclerotia, hyoscyamine, xanthoxine and total alkaloids of belladonna.

Chairman : Dr. S. C. Dutta ; *Mg. Director :* B. C. Gulati.

Government Silk Weaving Factory, Raj Bagh, Srinagar 190001.

Biggest silk weaving factory in India producing quality silk fabrics out of 100 per cent pure univoltine Kashmir silk. The total production capacity is 0·35 million metres per year.

Chairman : S. Banerji, I.A.S. ; *Mg. Director :* Dr. T. G. K. Charlu.

Government Woollen Mills, Srinagar 190001.

The average monthly production on the basis of 1962-63 working is — cloth 211,220 metres and yarn 205,920 kg.

Chairman : S. Banerji ; *Mg. Director :* T. G. K. Charlu.

J. & K. Minerals Ltd., The Bund, Srinagar 190001.

The undertaking has so far set up a cement factory, a prestressed concrete factory and a thermal power station in the State. A 22·5 MW thermal power station set up by the organisation has been taken over by State Electricity Dept. Another Cement factory of 600 tonnes per day capacity is being set up. Coal is being extracted in Kalakot area in Jammu.

Mg. Director : Dr. T. G. K. Charlu, I.A.S.

Jammu & Kashmir Ind. Ltd., Stone Bldg., Srinagar, 190001.

The Company runs woollen mills, silk factories, leather tanneries, bricks and tiles factory, pharmaceutical works, etc. in the State. The following projects are expected to be taken up shortly :—Kraft paper project, fruit processing glass projects, wool combing project and joinery mills.

Chairman : S. Banerji ; *Mg. Director :* Dr. T. G. K. Charlu.

KARNATAKA

Government Central Industrial Workshop, Mysore Rd., Bangalore 560026.

The workshop is engaged in general engineering works such as manufacture of structurals to specifications, ferrous and non-ferrous castings, concrete mixers, insulator pins, dryer carts, wheel barrows, hand carts, three wheeled road rollers, cable carrying wheel, one ton trailor chemical plants, wheat washing machines, etc. Annual outturn : Rs. 3·00 million.

Government Electric Factory, P. B. 2610, Mysore Rd., Bangalore 560026.

Main products : Transformers in various sizes, mathematical and survey instruments, industrial, plastic and bakelite mouldings and trailers. Annual turnover Rs. 17·5 million.

General Manager : M. N. Viswanatha Shetty.

Government Sandalwood Oil Factory, Mysore 570008. Factories at (1) Mysore, (2) Shimoga.

Production : 1973–74 : Quantity : 95,531 kgs. of Sandalwood oil valued at Rs. 35,896,367.

Director : B. K. Thungappa ; *Gen. Manager :* B. Puttaswamy.

Government Silk Weaving Factory, Mananthody Rd., Mysore 570004.

Annual outturn : Rs. 3·7 million. The factory is engaged in the manufacture of high grade 100 per cent re-reeled pure silk fabrics.

Chairman : V. S. Koujalagi ; *Director :* H. Hanumanthapa.

Government Soap Factory, P. B. 5531, Bangalore 560055.

Annual outturn for 1973-74 : Production 5,083 m. tonnes ; Sales Rs. 46·30 million.

Director : B. K. Thungappa ; *Gen. Manager :* V. Jayappa.

Hutti Gold Mines Co., Ltd., P.O. Hutti *Via* Raichur.

The current production is at the rate of 220,000 tonnes of ore treated per annum with a recovery of 1,500 kg. of gold.

Karnataka Industrial Areas Development Board, 9, Walton Rd., Bangalore 560001. (Estd. : 1966) *Objectives :* (1) To develop industrial areas by providing infrastructural facilities ; (2) to establish, develop and manage industrial estates. The Board's activities at present cover the areas near or around Bangalore, Mangalore, Mysore-Belagola, Nanjangud, Shimoga-Bhadravati, Harihar-Davangere, Hubli-Dharwar, Dandeli, Karwar, Gokarna, Belgaum, Raichur & Gulbarga.

Chairman : M. Veeraraja Urs.

Mahaboob Shahi Kulburga Mills Co., Ltd., Gulbarga 585101.

The mill runs 24,000 spindles and 528 looms with processing and printing sections. Under the modernisation scheme it is proposed to spend nearly Rs. 6 millions.

The Mysore Chrome Tanning Co., Ltd., G.E.F. Post, Mysore Rd., Bangalore 560026.

The company manufactures all kinds of chrome upper leathers, sole leathers, besides manufacturing leather goods.

Chairman : D. R. Gunduraj.

Mysore Implements Factory, Hassan 573201.

Annual outturn : Rs. 6 million. The factory has been mechanised for mass production of implements. The capacity of the factory is being increased to Rs. 10 million per annum, in one or two years time.

Director : Zafar Saifullah, I.A.S. ; *Gen. Manager :* G. Nagaraju.

The Mysore Iron & Steel Ltd., Bhadravati 577301 Shimoga Dist.

It is an integrated steel plant producing alloy and special steels, mild steel, tor steel, ferro-silicon, steel castings, grey iron castings, refractory bricks, cement etc.

Chairman : S. M. Krishna ; *Mg. Director and Vice-Chairman:* S. K. Warrior, I.A.S.

The Mysore Lac & Paint Works Ltd., P.B. 82, Mysore 570001.

The factory manufactures paints, varnishes, duplicating inks, sealing wax and other allied products.

Chairman & Mg. Director : K. S. Suryanarayana Rao.

Mysore Minerals Ltd., No. 67/2, Lavelle Rd., Bangalore 560001.

This company deals with mining and marketing of the following minerals : Iron ore, manganese ore, china clay, aluminous clay, chromite, asbestos, soapstone, limestone, bauxite, feldspar & dolomite.

The total sales by the company during the year 1973–74 amounted to Rs. 12·47 million.

Chairman : V. Venugopal Naidu ; *Mg. Director :* Dr. T. Thimmaiah.

Mysore Petrochemicals Ltd., 9/1, Palace Rd., Bangalore 560052 ; (*Calcutta Office :* 14, N. Subhash Rd., Calcutta 700001).

A joint sector project of Karnataka State Indl. Investment and Devpt. Corpn., Bangalore and Shekhavati Investment Corpn. Ltd., Calcutta, to manufacture 6,000 tonnes of Phthalic Anhydride per annum by the end of 1975. The plant is near Raichur.

Mg. Director : S. S. Dhanuka.

Mysore Porcelains Ltd., P.B. 1245, Science Institute Post, Bangalore 560012.

The company manufactures H. T. & L. T. Electro-Porcelain Insulators and accompanying metal parts. It has facilities for the manufacture of 7,500 tonnes per annum of these items. The company has plans to manufacture Silicon Carbide lumps and Beryllium Oxide besides licences on hand for substantial expansion of the existing capacity to 10,000 tonnes, and for the manufacture of insulators and hardware for 400 kv transmission lines.

Chairman : T. Shamanna, I.A.S. (Retd.); *Mg. Director :* A. Samba Moorty.

N G E F Ltd., Byappanahalli, Bangalore 560038.

Main products : (*i*) Transformers upto 40,000 kva and voltages upto 132 kv to an aggregate of 1,000,000 kva per annum, per single shift. (*ii*) *Motors :* Upto 1500 Hp both in LT and HT upto 6·6 kv to an aggregate of 480,000 Hp per annum, per single shift. (*iii*) *Switchgear :* Low oil content circuit breaker upto 11 kv, Air circuit breakers, HT and LT switchboards, drum type switches, cast iron distribution boards, load break switches, fuses etc. of the value of about Rs. 12 m. per annum, per single shift. (*iv*) Silicon diodes for power rectification : Current rating 400 ARMS, reverse voltage upto 3 kv. Present production capacity upto 20,000 pieces per annum per single shift.

Chairman : T. Shamanna ; *Mg. Director :* M. Sachidanand Moorthy.

Radio & Electricals Manufg. Co., Mysore Rd., Bangalore 560026.

The Company manufactures valve and transistorised radio receivers & allied components; plastic insulated wires & cables; single & polyphase electricity meters; water meters; wave change switches; paper, electrolytic and polyester capacitors; loudspeakers; community radio receivers, television receivers, Stereo amplifier systems and lightning arresters.

KERALA

Chalakudy Potteries Ltd., Railway Station Rd., Chalakudy.

Estd. : 1969. The factory was inaugurated on 14th August 1971 for the manufacture of refractories. Production capacity is now being raised to 1,000 tonnes per month from 300 tonnes originally proposed. Main products are B.P. sets, sillimanite bricks, insulation bricks, high heat duty refractories etc.

Chairman : P. S. Namboodiri ; *Mg. Director :* T. A. Sidharthan.

Kerala Ceramics Ltd., P.O. Kundara 691501.

The Company consists of two divisions. (1) The Porcelain Division producing porcelain crockery, and low tension electrical insulators. (2) The Kaolin Division, consisting of china clay mines and modern plant producing refined china clay of various grades including paper coating clay.

Chairman : K. Narayanan, I.A.S. ; *Mg. Director :* S. Peer Mohammed.

Kerala Electrical & Allied Engg. Co., Ltd., P.O., Mamala, Cochin.

This Company has four Manufacturing Divisions.

A. Mamala Works

1. *Transformer Division :*—The unit is equipped to manufacture transformers upto 1500 kva, 33 kv with annual output of 120,000 kva. Now the range of manufacture is extended upto 3,000 kva. Transformers of special nature, rectifier, furnace etc. are also manufactured as per customers' requirement.

2. *Structural Division :*—Design, fabrication and erection of all types of steel structures for industrial building, power houses etc., vertical gates, radial gates, pressure gates, sluice gates including hoist mechanism and lifting gantries, lock gates and screw geared shutters, crane structures etc., galvanised transmission line towers, M. S. Pipes and special storage tanks, etc.

3. *Switchgear Division :*—Manufacturing Roc contactors of various ratings, thermal relays, DOL starters, microfuse and norfuse products, etc. in technical collaboration with Messrs. Unelec, France.

B. Kundara Division

1. Electric Motors 1·5 HP to 10 HP screen protected and totally enclosed fan cooled types; 2. Centrifugal pumps including special high discharge de-watering pumps; 3. Electrical wiring accessories viz. tumbler switches, fuse units, cutouts etc.; 4. Bakelite mouldings; 5. C.I. pipes and specials and G.I. castings weighing upto 1·5 tonnes; 6. Pole line hardwares like stay rods, cross arms etc.

Chairman : K. P. Vishwanathan Nair; *Gen. Manager :* M. S. Chellappa.

Kerala Industrial & Technical Consultancy Organisation Ltd., (KITCO), Shema Bldg., M. Gandhi Rd., Cochin 682016.

KITCO a subsidiary of the Indl. Devpt. Bank of India, co-sponsored by national level and state level financial institutions and the state Government for promotion of industrial development of Kerala State. *Functions :* Identification of indl. potential & project ideas; preparation of project-profiles, product reports, feasibility reports, promotion & management of industries; market research, techno-economic appraisal of projects, evaluation of assets, working capital etc.

Chairman : V. V. Chari (Dy. Governor, Reserve Bank of India); *Mg. Director :* M. S. Gurushankariah.

Kerala Premo Pipe Factory Ltd., P.O. Puthenthura, Neendakara, Quilon Dist. *Registered Office :* Hospital Rd., Quilon 691001.

In this factory prestressed high and low pressure concrete pipes and R.C.C. pipes are manufactured for water supply, drainage and irrigation.

Chairman : N. Gopalkrishnan Nair; *Mg. Director :* K. Govindan Nair.

Kerala Shipping Corpn. Ltd., Shipping House, Harbour Rd., Willingdon Island, Cochin 682003.

Promoted by the Govt. of Kerala in the joint sector to own ships and to conduct shipping business.

Mg. Director : V. V. Nair.

Kerala Soaps & Oils Ltd., West Hill, Calicut 673005.

The Company consists of 3 units viz. Soap Division, Oil Division and Hydrogenation Division.

The Company manufactures soaps and Vitamin A & D Shark liver oil products.

Chairman and Mg. Director : M. K. Pillai.

Kerala State Drugs & Pharmaceuticals Ltd., Kalavoor, Alleppey 688001.

Manufactures drugs and formulations for the state govt. hospitals.

Chairman : Dr. R. Sankararaman; *Mg. Director :* M. Narayanan.

Kerala State Financial Enterprises Ltd., XX/137, Leela Baugh, Civil Lines Rd., Trichur 680004.

The only Public Sector company in India that conducts chit funds to cater to the public and also conducts hire purchase financing under which durable consumer articles such as motor vehicles, refrigerators, sewing machines, bicycles, fans, radios, pump sets, etc. are made available to the public at reasonable rates of Finance Charge. It has 14 branches in important towns of the State.

Mg. Director : K. Bharathan.

Pallathra Bricks & Tiles Ltd., P.O. Kochuramapuram, Shertallay.

The object of the Company is to produce and distribute sand lime bricks, a new architectural brick of high strength and finish. The designed capacity of the factory is 44,000 bricks per working day of 16 hours.

Traco Cable Co. Ltd., S.V. Bldg., XXX/1408, M.G. Rd., Ernakulam 682016.

The company manufactures and deals in all kinds of wires and cables.

Future plan: To make paper insulated (dry core) telephone cables; PVC insulated jumper wires, switchboard wires; and, multicore telephone cables.

Chairman : K. P. Vishwanathan Nayar; *Mg. Director :* K. P. Pillay.

Travancore-Cochin Chemicals Ltd., P.O. Udyogamandal 683501.

Only public sector Caustic Soda Unit in the country — Established in 1952. The daily licensed production capacity of the factory is 100 tonnes of rayon grade caustic soda, 10 tonnes of sodium hydrosulphite, 4 tonnes of iron-free sodium sulphide, 180 tonnes of hydrochloric acid and 30 tonnes of liquid chlorine. The expansion programme which will double the existing capacity is expected to be completed by the end of 1975.

Chairman : K. Narayanan, I.A.S.; *Mg. Director :* A. R. Narasimhan.

Travancore Plywood Industries Ltd., Punalur, 691305.

The installed capacity of the factory is 2·28 million sq. metres of plywood panels per annum in two shifts. Annual turnover is Rs. 10 million.

Chairman : S. Peer Mohammed; *Mg. Director :* R. Neelakantan Nair.

Travancore Titanium Products Ltd., Kochu Veli, Trivandrum 695021.

The factory is the only unit in India producing titanium dioxide pigments, an important intermediate for paint, rubber and many other consumer products. It has now a production capacity of 68 tonnes per day.

Chairman : K. Narayanan, I.A.S.; *Mg. Director :* S. Padma-Kumar, I.A.S.

Trivandrum Rubber Works Ltd., Chackai, Trivandrum 695007.

Trivandrum Spinning Mills Ltd., Balaramapuram. Equipped with modern superhigh draft machinery for 25,200 spindles and 800 spindles of doubling frames, this mill manufactures quality yarn of counts varying from 40s and 60s in hanks and cones.

Gen. Manager : C. M. Francis.

United Electrical Industries Ltd., Pallimukku, Quilon 691001.

The company at present manufactures electricity meters, motor starters, switchgears, series regulators and magneto generators. Plans are also under way to manufacture electronic equipments and components.

General Manager : T. G. Paul.

Chairman : Dr. V. Venkita Narayanan, I.A.S.; *General Manager :* T. G. Paul.

MADHYA PRADESH

Madhya Pradesh Laghu Udyog Nigam Ltd., 23, New Shopping Centre, New Market, T. T. Nagar, Bhopal 462003.

The Nigam has undertaken the following activities :—

(1) Procurement and distribution of scarce and controlled materials.
(2) Sale of handloom and handicraft products, through 15 emporia and participation in exhibitions and export promotion.
(3) Exports of handloom, handicraft products and engineering goods.
(4) Construction of industrial estates, rural work sheds and development of industrial areas for establishing factories.
(5) Supply of machines on hire purchase basis to educated unemployed persons of the State.

Chairman : Amolakchand Chhajad; *Mg. Director :* G. K. Seth.

MAHARASHTRA

MAFCO Factory, National Park, Borivli, Bombay 400066.

This factory established by the Government of Maharashtra with a capacity to slaughter 100 pigs a day has been transferred with its assets to the Maharashtra Agricultural Development and Fertiliser Promotion Corpn. Ltd. (MAFCO). The total capital investment on this factory including buildings, equipment and vehicles etc. is about Rs. 5·222 million.

The factory produces meat, bacon, ham, sausages and canned meat products.

Manager : M. B. Patil.

MAFCO Pig Breeding Station, Borivli, Bombay 400066.

This Station supplies exotic pigs of Landrace and Yorkshire breeds to individual breeders and co-operatives. The station undertakes breeding of pigs under scientific methods.

Manganese Ore (India) Ltd., 3, Mount Rd. Extn., Nagpur 440001.

This Company was set up in collaboration with C.P. Manganese Ore Company Limited, U.K.

The Manganese Ore (India) Ltd. operates the manganese mines in Nagpur, Bhandara and Balaghat districts.

The output and sales including export of all grades of manganese ore during 1973–74 were 298,216 and 234,835 tonnes respectively valued at Rs. 31·09 million.

Chairman-cum-Mg. Director : A. Chaudhuri.

MEGHALAYA

Mawmluh-Cherra Cements Ltd., Mawmluh, Cherrapunjee.

The Company has set up its factory at Cherrapunjee for manufacture of Portland Cement with a capacity of 250 tonnes per day. Expansion of the factory which was expected to be completed by 1974 will increase the capacity to 930 tonnes per day.

Chairman : S. D. Nicholas Roy.

ORISSA

Cuttack Iron & Steel Products Ltd., Ind. Estate, Cuttack 753003.

The company manufactures fabricated steel goods. It undertakes all types of fabrication work. Its products can be divided into three categories: (1) Heavy Goods: (2) Semi-Heavy Goods: (3) Light Goods.

Rourkela Fabrications Ltd., Ind. Area, Rourkela 769004.

The factory manufactures quality steel window, angle roof trusses, purlins, all steel screw gear shutters, falling shutters and for any type of structurals heavy, medium and light.

Turn-over for 1973–74 : Rs. 1·2 million.

Spark Battery Manufg., Works Ltd., Ind. Estate, Cuttack 753003.

Chairman : D. C. Gupta, I.A.S. ; *Mg. Director :* N. C. Pradhan.

PONDICHERRY

Pondicherry Distilleries Ltd., Cours Chabrol, Pondicherry 605001.

PUNJAB

Punjab Industrial Consultancy Organisation, S.C.O. 80-82, Sector 17-D, Chandigarh 160017.

Offers expertise to industries (large, medium and small scale) in the field of technological know-how, marketing, finance and assistance to diversity and increase their export potential.

Chief Consultant : M. S. Kothari.

RAJASTHAN

Bikaner Gypsum Ltd., Udaipur 313001.

Chairman : S. L. Khurana ; *Mg. Director :* A. C. Dutta.

Gangasagar Sugar Mills Ltd., Hi-Tech. Glass Division, Dholpur 328001.

The company manufactures Hi-Tech. brand neutral laboratory glasswares and bottles.

TAMIL NADU

Cinchona Department, Nilgiri and Anamalais.

Engaged in the cultivation of cinchona, and manufacture and sale including export of quinine products.

Government Mechanised Brick Plant, Thirumazhisai, Madras 600056.

A project costing Rs. 7 million to produce 66,000 bricks per day. This project has been taken over by Tamil Nadu Ceramics Ltd., Madras.

Government Tea Project, Hill Cottage, Coonoor 643102 (Nilgiris).

Started in 1968 with the object of rehabilitating the Sri Lanka repatriates. It envisages the raising of 1,517 hectares of tea in the Nilgiri Dist. over a period of nine years under a Govt. of India loan.

In-Charge : T. Achaya, I.F.S. (Conservator of Forests).

Madras Fertilizers Ltd., Manali, Madras 600068.

Objects : To manufacture and market ammonia, urea and complex fertilizers with installed plant capacity of 750 tonnes, 885 tonnes and 1,100 tonnes per day respectively. The Fertilizer Plant is at Manali, Chingleput Dist., Madras.

Chairman : N. Mahalingam ; *Mg. Director :* Dr. Easo John.

Pandian Chemicals Ltd., (Joint Sector Company) 9, Vinayoga Nagar, Madurai 625020. *Factory :* Narasingampatti Village, Madurai Dist.

To manufacture Potassium Chlorate with an annual capacity of 1,825 tonnes for the match and allied industries in the State. Expected to go into production by April, 1975.

Mg. Director, Factory : S. Annamalai.

Pilot Cement Plant, Dalmiapuram (Tiruchi Dist.).

Pilot vertical shaft-kiln plant of the Cement Research Institute of Indie at Muduvathur (Tiruchi Dist.) is conducting research on optimising operations, improving the design and scaling up the capacity.

Director : Dr. H. C. Visvesvaraya.

Poompuhar Shipping Corpn. Ltd., Kuralagam, Madras 600001.

Southern Borax Ltd., Thatchur Village (Chingleput Dist.) ; *Regd. Office :* 103, Poonamallee High Rd., Kilpauk, Madras 600010.

To manufacture 15,000 tonnes of Borax and 3,000 tonnes of Boric Acid per annum used in the manufacture of glass and pharmaceuticals. Will go into production by March, 1975.

Tamilnad Cements, P.O. 626127, via Rajapalayam, Ramanathapuram Dist.

Manufactures 400,000 tonnes of Arasu Cement per annum, and will attain an expanded annual 700,000 tonnes in 1977.

Chairman and Mg. Director : E. C. P. Prabhakar.

Tamil Nadu Ceramics Ltd., 20, Cenotaph Rd., Teynampet, Madras 600018.

Chairman : R. A. Seetharam Das ; *Mg. Director :* P. S. Menon.

Tamil Nadu Chemical Products Ltd., *Regd. Office:* 5 K, Veerabhadra Iyer St., Nungambakkam. Madras 600034 ; *Factory :* Kalanivasal village (Ramanathapuram, Dist.).

To manufacture 3,300 tonnes of Sodium Hydrosulphite p.a., with Japanese collaboration, for textile industry and for use in vat dyes. Expected to start production in 1974.

Chairman : S. Narayanaswamy ; *Mg. Director :* B. Ananthaswami.

Tamil Nadu Chromates & Chemicals Ltd., Ranipet (N. Arcot Dist.), *Regd. Office :* 2-G, Nungambakkam High Rd., Madras 600034.

To manufacture 3,300 tonnes of basic chromium sulphate tanning (BCT) powder and 2,400 tonnes of Sodium Dichromate. Will go into production in 1975.

Chairman : N. S. Bhat ; *Mg. Director :* K. K. Mohiadeen,

Tamil Nadu Fluorine & Allied Chemicals Ltd.

A project to be located at Manalur, in Ramanathpuram Dist., for the manufacture of Aluminium Fluoride with an annual capacity of 6,000 tonnes it is expected to go into production by 1975 end.

Tamil Nadu Rubber Ltd., 110-A, Mount Rd., Madras 600018.

A joint venture of the State Government and private enterprise to make automobile tyres and tubes. Sanctioned capacity 400,000 per annum. The factory is expected to begin production by the end of 1976.

Chairman : P. R. Ramasubramania Raja.

Tamil Nadu Steels, P.Box 5, Arkonam 631004.

Set up with Soviet technical assistance to produce 50,000 tonnes of steel billets per annum utilising the continuous casting technique. First mini steel plant in the public sector in India.

Tamil Nadu Synthetic Fibres Ltd., Madurai Dist.

To manufacture Nylon/6 Filament Yarn at 6 tonnes per day capacity, polyster filament yarn, polyster film, etc.

Tansi Wool Processing Centre, Vinnamangalam Minnur, 635807, N. Arcot Dist.

Processes tannery wool/hairs to meet the requirements of drugget, carpet and felt manufacturers of Australia and India. The production capacity is 800 tonnes per year.
Chairman : Harbans Singh ; *Mg. Director :* K. Chandrachoodan.

Tuticorin Alkali Chemicals Ltd., Tuticorin 628001.
To manufacture 66,000 tonnes each of Soda Ash & Ammonium Chloride per annum with proposals to manufacture additionally Melamine & L—Lysine. Production will commence in 1977.

UTTAR PRADESH

Government Precision Instruments Factory, P. B. 153, Lucknow 226001.
The factory produces water meters of 15 mm, 20 mm and 25 mm sizes, microscopes, and pressure gauges in various ranges and depth gauges.
Manager : S. K. Maheshwari.

Indian Turpentine & Rosin Co., Ltd., P.O. Clutterbuckganj, Bareilly 243001.
From crude resin, the company manufactures turpentine and rosin of international repute. The gum of pine trees is being obtained from the Kumaon and Tehri forests of U.P. It is also manufacturing Ester gum and rubber emulsifier from resin.
Chairman : T. A. Kalyankrishnan ; *Mg. Director :* M. D. Upadhyaya.

Uttar Pradesh Industrial Consultants Ltd., C-26, Sarvodaya Nagar, Kanpur 208005.
This Company has been promoted by the State Goverment to undertake trade, technological and management consultancy in the State.
Chairman : G. N. Mehra ; *Mg. Director :* B. L. Manchanda.

WEST BENGAL

The Durgapur Projects Ltd., Regd. Office : Administrative Bldg., Durgapur, Burdwan. Calcutta Office : 1, Shakespeare Sarani, Calcutta 700016.
Products : B. P. Hard Coke, Nut Coke, Benzene, Industrial Toluol, Motor Benzol, Light Solvent Naptha, Lux Mas, Carbolic oil, Naphthalene oil, Crude Naphthalene, Anthracene oil, Timber Pickling oil, Sodium Phenolate and Road Tar (No. 3 & 4).

Electro-Medical & Allied Industries Ltd., 4/2, B. T. Rd., Calcutta 700056.
The Company manufactures various types of X-Ray & Electro-Medical equipments in technical co-operation with Picker X-Ray Corpn. U.S.A.
Chairman : Dr. A. K. Basu.

Kalyani Spinning Mills Ltd., 67, Bentinck St., Calcutta 700001. *Works :* Kalyani and Habra.
Range of Production : Weaving yarn in hanks and cones and sewing thread. *Installed Capacity :* 77,800 spindles. Production during 1973-74 : 1,701,177 kgs.
Chairman : A. C. Sinha ; *Mg. Director :* D. D. Sharma.

ALL INDIA CORPORATIONS

Agricultural Finance Corpn. Ltd., Dhanraj Mahal, Chhatrapati Shivaji Maharaj Marg, Bombay 400039.
Eastern Region Office : Calcutta ; *Project Offices :* Patna, Raipur, Kota and Tuticorin.
Functions : The Corporation is a consortium of commercial banks. It extends project financing for various irrigation schemes, and project consultancy services to commercial banks, State Govts., inctitutions and individuals for undertaking techno-economic surveys, pre-investment surveys, project analysis and formulation and follow-up studies and evaluation.
Chairman : V. M. Bhide ; *Mg. Director :* Ghulam Ghouse.

Agricultural Refinance Corpn., Shriniketan, Dr. A. Besant Rd., P.B. 6552, Worli, Bombay 400018.
Regional Offices : Central Bank of India Bldg., Lal Darwaja, Ahmedabad 380001 ; Reserve Bank Bldg., Nrupathunga Rd., Bangalore 560002 ; 126, Malviya Nagar, Bhopal 462003 ; 13, Janpath, Bapujinagar, Bhubaneshwar 751001 ; Jeevan Deep Bldg., Sector 17-A, P. B. 2, Chandigarh 160017 ; Old Reserve Bank Bldg., 8 Council House St., Calcutta 700001 ; Andhra Bank Bldg., S. Bazar Rd., Hyderabad 500001. Sansar Chandra Rd., Opp. Alu Factory, P. B. 10, Jaipur 302001 ; 28-A, Vidhan Sabha Marg, Lucknow 226001 ; C/o Reserve Bank of India, Fort Glacis, S. Beach Rd., Madras 600001 ; Reserve Bank of India Bldg., 6, Parliament St., P. B. 696, New Delhi ; C/o Reserve Bank of India, South Gandhi Maidan, Patna 800001 ; C/o Agri. Credit Dept., Reserve Bank of India, Belhaven, P. B. 804, Trivandrum 695003 ; Industrial Co-op. Bank Bldg., S. S. Rd., Lakhtakia, Gauhati 781001.
Consultancy Services : 28A, Vidhan Sabha Marg, Lucknow 226001 ; Old Reserve Bank Bldg., 8 Council House St., Calcutta 700001.
Functions : It is primarily a refinancing agency and its object is to provide financial accommodation to the various special schemes of agricultural development.
Chairman : Dr. R. K. Hazari ; *Mg. Director :* M. A. Chidambaram.

Cashew Corpn. of India Ltd., P. B. 1261, M. Gandhi Rd., Cochin 682011. (Regd. Office : 'Chandralok', 36, Janpath, New Delhi 110001).
Functions : A subsidiary of S.T.C., through which imports of raw cashewnuts are now being canalised. It ensures regulated imports for distribution to the export oriented sector of the Cashew Processing Industry at reasonable rases.
(Also see chapter on 'Cashew Industry').
Chairman and Mg. Director : Z. K. Joseph.

Cement Corpn. of India Ltd., 'Herald House', 5-A, Bahadur Shah Zafar Marg, New Delhi 110001.
Functions : To set up cement factories in various parts of the country and to survey and prospect for limestone deposits in the country. So far it has proved 14 limestone deposits suitable for setting up cement plants. A cement plant at Mandhar, M.P., with a capacity of 200,000 tonnes per year, is in production since July 1970. The capacity of this plant is being doubled to produce blast furnace slag cement. The second unit of the Corporation at Kurkunta, Karnataka, is in production since October 1972. Preliminary work for its third and fourth plants have been started at Bokajan, Assam and Paonta, Himachal Pradesh. The Corporation has proposals to set up new plants with an annual installed capacity of 400,000 tonnes each at Neemuch, Madhya Pradesh, Tandur, Yerraguntla and Adilabad, Andhra Pradesh for the production of portland cement [illegible] another plant of 600,000 tonnes at Akaltara, Madhya Pradesh for the production of blast furnace slag cement. In addition, the Corporation also offers consultancy services.
(Also see chapter on Cement Industry).
Chairman & Mg. Director : B. V. Raju.

Central Inland Water Transport Corpn. Ltd., Regd. Office : 4, Fairlie Place, Calcutta 700001.

Branches : 10, Ishakhan Rd., Narayanganj, Bangladesh.

In Assam : Pandu Port, Gauhati 781012 ; Silchar, Cachar Dist. 788001 ; S. W. Ardfin, P.O. Dhubri, Goalpara Dist. 783301 ; Jenkins Rd., P. O. Tezpur, Darang Dist. 784001 ; Jogighopa, Goalpara Dist., 783382 ; Club Rd., Opp. Ganga Barua House, P. O. Garali, Jorhat 785001.

Functions : (*i*) Ship-building, ship repairing and general engineering at its Rajabagan Dockyard ; (*ii*) River transport at Calcutta and from Calcutta to Assam *Via* Bangladesh ; (*iii*) Automobile repairs and truck and bus body-building at Kulpi Workshop ; (*iv*) Stevedoring, lighterage, river conservancy and bunkering and supply of fresh water to deep sea vessels etc. ; (*v*) Dredging ; (*vi*) Tea warehousing at Calcutta.

Chairman : S. K. Datta, I.C.S. (Retd.) ; *Mg. Director :* M. Yusuf Khan.

Central Road Transport Corpn. Ltd., 4, Fairlie Place, Calcutta 700001.

Functions : To supplement the road transport capacity in the eastern sector of the country. The Corporation has a fleet of about 250 Leyland and TMB trucks. In the western sector the company has to serve the Food Corporation of India for movement of foodgrains, fertilisers and packing materials with 154 "gift trucks" belonging to the Government of India.

Chairman : S. K. Datta, I.C.S. (Retd.) ; *Mg. Director :* M. Yusuf Khan.

Central Warehousing Corpn., C-90, New Delhi South Extn. Part II, New Delhi 110049.

Functions : (*i*) To help storage of agricultural produce and other commodities as are declared to be "Notified Commodities" by the Central Government. (*ii*) To assist the depositors to secure cheap credit, avoid distress sales and sell his produce as and when the market is favourable to him. (*iii*) to undertake disinfestation service outside its warehouses and also (*iv*) to act as agent for the purposes of purchase, sale and distribution of agricultural produce. By the end of March, 1974 the total built up capacity owned by the Corporation was 1·06 million tonnes including two cold storages of 600 and 1,200 tonnes capacity at Hyderabad and Calcutta respectively.

State Corpns. :— The State Governments have with the approval of the Central Warehousing Corporation established a Warehousing Corporation in each State.

The 16 S. W. C. had, by the end of 1974, set up 828 warehouses and a cold storage with a total storage capacity of 1·69 million tonnes including owned built-up capacity of 602,000 tonnes.

Chairman : G. W. Momin ; *Mg. Director :* Rajinder Singh.

Cotton Corpn. of India Ltd., Air India Bldg., 12th Fl., Nariman Point, Bombay 400021.

Functions : Serves as an agency for purchase, sale and equitable distribution of domestic cotton and cotton staple fibre imported from abroad.

(Also see chapter on 'Cotton and Cotton Textiles').

Chairman : G. Ramanujam ; *Mg. Director :* N. S. Kulkarni.

Credit Guarantee Corpn. of India Ltd., Vidyut Bhavan, 3rd Fl., B.E.S.T. Bldg., Pathakwadi, Bombay 400002.

Functions : Promoted by the Reserve Bank of India. It guarantees loans and other credit facilities extended to (*i*) by scheduled and non-scheduled commercial banks to small traders, farmers and self-employed persons and small borrowers under the Differential Interest Rates Scheme : (*ii*) by scheduled and non-scheduled commercial banks and State Financial Corporations to small transport and business enterprises and (*iii*) by scheduled commercial banks and certain State and Central co-operative banks to service co-operative societies assisting their members who are engaged in industrial acitivity.

Chairman : Dr. R. K. Hazari ; *Manager :* G. G. Deshpande.

Deposit Insurance Corpn., 'Vidyut Bhavan', Pathakwadi, Bombay 400002.

Functions : To give a measure of protection to depositors, in particular to small depositors, from the risk of loss of their deposits in the event of a bank's inability to meet its liabilities.

The Corporation provides insurance to the extent of Rs. 10,000 to a depositor in respect of all deposits held by him in an insured bank in the same right and capacity.

Every commercial bank functioning in India and every eligible Co-op. bank functioning in the States of Maharashtra, Madhya Pradesh, Andhra Pradesh, Jammu & Kashmir and the Union Territories of Delhi, Goa, Daman and Diu to which the Deposit Insurance Scheme has so far been extended, is registered as an insured bank with the Corporation and all its depositors get the protection afforded by the Corporation.

The total number of insured banks at the end of 1973 was 492.

The Corporation has a capital of Rs. 15 million entirely held by the Reserve Bank and a Deposit Insurance Fund of Rs. 306·33 million.

Chairman : S. Jagannathan, Governor of the Reserve Bank of India. *Manager :* V. S. Moharir.

Electronics Corpn. of India Ltd., Ind. Development Area, Cherlapalli, Hyderabad 500040.

Functions : To manufacture and sell nuclear and allied instruments/systems, electronic test and measuring instruments, ultrasonic flaw detectors, closed circuit television systems, commercial television receivers, digital and analog computers. Registors — metal film, carbon film. Tantalum capacitors single turn, multiturn and trimming ptentiometers. Silicon semi-conductor devices such as power transistors, rectifiers, zener diodes, microwave test equipment and components, control instrumentation for atomic power plants and A.C. gear motors, synchronous motors, synchro transformers/transmitters. Electronic desk calculators and medical equipments.

Chairman : Dr. H. N. Sethna ; *Mg. Director :* A. S. Rao.

Employees' State Insurance Corpn., *Hqrs. Office :* ESIC Building, Kotla Road, New Delhi 110001.

The Employees' State Insurance Act applies to all non-seasonal factories using power wherein 20 or more persons work for wages. All employees employed on a remuneration not exceeding Rs. 500 per month, are covered by this Act.

The scheme at present provides for medical care for the insured persons and in most of the areas for their families also. It also provides for sickness, maternity, disablement, dependants and funeral benefit in cash.

The scheme is in force in all the States except Jammu and Kashmir. Steps are being taken to extend the scheme to Jammu and Kashmir.

(Also see chapter on 'Labour' for details).

Chairman : K. V. Raghunath Reddy ; *Director-General :* T. N. Lakshmi Narayan.

Export Credit & Guarantee Corpn. Ltd., Express Towers, 10th Fl., Nariman Point, Bombay 400021.

Functions : To promote the growth of India's export trade by providing insurance facilities to Indian exporters, covering certain commercial and political risks involved in exports on credit terms and furnishing guarantees to banks enabling the exporters to get advances from the banks on liberal terms.

Chairman & Mg. Director : M. V. Subba Rao; *Gen. Manager :* P. B. Satagopan; *Secretary :* N. Chandrasekharan.

Fertilizer Corpn. of India, (For details see chapter on "Govt. Ind. Undertakings").

Film Finance Corpn. Ltd., "White House", 91, Walkeshwar Rd., Bombay 400006. (For details see chapter on Film Industry.)

Food Corpn. of India, 16-20, Barakhamba Lane, New Delhi 110001.

Functions : To provide the farmer an assured price for his produce, supply quality foodgrains to the consumer at reasonable prices.

FCI today has 4 zonal offices, one each at Bombay, Calcutta, Delhi and Madras, 16 regional offices, about 150 district offices and nearly 1,100 storage centres. FCI has 7·5 million tonnes of storage capacity.

FCI is setting up 24 modern rice mills of 4 tonne per hour capacity at various rice-producing centres in the country. Eighteen mills have been commissioned in Haryana, Tamil Nadu, Andhra Pradesh, Punjab, Orissa, Kerala, Uttar Pradesh, Bihar and West Bengal. FCI has set up a groundnut solvent extraction plant at Ujjain in Madhya Pradesh, a maize mill at Faridabad in Haryana and a dal mill at Lucknow in Uttar Pradesh. It is also setting up a rice bran oil extraction plant at Sembanarkoil in Tamil Nadu.

Chairman : R. N. Chopra, I.A.S.; *Mg. Director :* N. Narasimha Rau, I.A.S.

Handicrafts & Handlooms Exports Corpn. of India Ltd., Lok Kalyan Bhavan, 11A, Rouse Ave. Lane, New Delhi 110001.

Functions : It undertakes export of handicrafts and handloom goods, with the main object of introducing new items and exploring new markets. It also handles canalised export of woollen knitwear.

The Corporation has Sona retail shops in New York, Boston, Paris, Nairobi and Tokyo. It has a carpets warehouse in Hamburg, a branch office in Madras, and regional offices in Bombay, Calcutta, Ludhiana and Bhadohi.

Chairman : Mrs. Pupul Jayakar.

Hindustan Paper Corpn. Ltd., Regd. Office: D-44, N. D. S. E. Part-II New Delhi 110049.

Project Offices : Nowgong/Cachar Pulp/Paper projects, Sanskriti Bhavan, Cantonment Rd., Silchar 788001 Assam; Kerala Newsprint Project, A-14, Jawahar Nagar, Trivandrum 695001.

Subsidiaries : Nagaland Pulp & Paper Co. Ltd., P.O. Tuli, Mokokchung Dist., Nagaland; Mandya National Paper Mills Ltd., Belagula, Karnataka.

Functions : To establish newsprint, paper and pulp factories in the public sector. Registered in May, 1970 the Corporation is setting up four plants. Two of these plants will be located in Assam, each with a capacity of producing 80,000 tonnes of paper per year. Another plant will be set up in Nagaland with an annual capacity of 30,000 tonnes of paper. The fourth project, a newsprint mill will be situated in Kerala at Velloor near Vaikom in Kottayam Dist with a capacity 80,000 tonnes production per annum.

Chairman & Mg. Director : M. L. Zutshi.

Hotel Corpn. of India Ltd., Air India Bldg., 13th Fl., Nariman Point, Bombay 400021.

Functions : A wholly-owned subsidiary of Air India, aims at carrying on the business of hotels and restaurants and providing lodging and boarding facilities for the public including tourists with a view to promoting tourist trade. At present, it operates two flight kitchens at Bombay and New Delhi. The corporation is constructing its first 300 room luxury class hotel at Santa Cruz Airport.

Chairman : K. K. Unni; *Mg. Director :* E. Pereira; *Directors :* S. K. Kooka, K. G. Appusamy, N. H. Dastur, S. N. Gadhoke, C. V. R. Rao, and Smt. S. Jagannathan.

Housing & Urban Development Corpn. Ltd., 12-A, Jamnagar House, New Delhi 110011.

Functions : To finance or undertake housing and urban development programmes in the country, and also setting up of new or satellite towns and building material industries etc. So far it has approved loans for 124 projects for about Rs. 1,000 million in almost all States to provide houses and plots to about 600,000 persons in 3 years of its active operation which will result in 71,000 flats/houses and 20,000 plots. Over 120 other projects have been received from State Govts./State Housing Boards, Improvement Trusts, Municipal Corpns., Public Undertakings etc. for financial assistance.

Chairman : Keshub Mahindra; *Mg. Director :* J. B. D'souza.

India Tourism Development Corpn. Ltd., Jeevan Vihar, 3, Parliament St., New Delhi 110001.

Regional Offices : Nirmal, Nariman Point, Bombay 400021; 35, Mount Rd., Madras; 'L' Block, Connaught Place, New Delhi 400001.

Functions : It provides a range of tourist services throughout the country: accommodation, transport, entertainment, tourist literature and duty free shops.

ITDC runs 13 hotels, 3 beach resorts, 2 motels, 15 travellers lodges, 6 sound and light shows, 4 duty free shops, 18 transport units and 9 restaurants. In Delhi, it runs Hotels Ashoka, Akbar, Janpath, Lodhi, Qutab and Ranjit; in Bangalore, Hotel Ashoka; in Udaipur, Laxmi Vilas Palace Hotel; in Aurangabad, Aurangabad Hotel; in Calcutta, Airport Hotel; in Khajuraho, Khajuraho Hotel; in Varanasi, Varanasi Hotel and beach resorts two in Kerala, Kovalam Grove and Kovalam Palace Hotel and one in Tamil Nadu, Temple Bay at Mahabalipuram; in Mysore, Lalith Mahal Palace Hotel. In addition the Corporation has two motels at Hassan and Jammu.

Chairman & Mg. Director : M. S. Sundara.

Indian Dairy Corpn., Yashkamal Bldg., Lokmanya Tilak Rd., Vadodara 390005.

Branches : Delhi, Bombay, Madras & Calcutta.

Functions : To promote dairying in India and to execute the WFP assisted project "Operation Flood" on behalf of the Government. The project aims at improvement of milk marketing and dairy development by enabling the organised dairy sector to obtain a commanding share of the markets in the four major cities of Bombay, Calcutta, Delhi and Madras.

The Corporation also acts as the canalising agency for the import and distribution of skim milk powder. The Corporation functions in close co-operation with the National Dairy Development Board, Anand, who are the technical consul[illegible]s to the Corporation and with the various agencies of the Central and State Governments.

Indian Motion Pictures Export Corpn. Ltd., (Regd. Office), 5th Fl., 'D' Shiv Sagar Estate, Dr. A. Besant Road, Worli, Bombay 400018. (For details see chapter on Film Industry.)

Indian Petrochemical Corpn. Ltd., P. O. Jawaharnagar, 391320, Vadodara Dist, Gujarat. (For details see chapter on Petrochemical Industry).

Chairman & Managing Director : S. Varadarajan.

Industrial Credit & Investment Corpn. of India Ltd., 163, Backbay Recl., Bombay 400020.

Regional Offices : 20, Old Court House St., Calcutta 700001; 20, Nungambakkam High Rd., Madras 600034.

Functions : To assist industrial enterprises in the industrial sector by providing finance in both rupee and foreign currencies in the form of long or medium-term loans or equity participations, sponsoring and under-writing new issues of shares and securities, guaranteeing loans from other private investment sources, furnishing managerial, technical and administrative advice to Indian industry.

Chairman : H. T. Parekh ; *Mg. Director :* S. S. Mehta ; *Jt. Mg. Director :* Dr. P. B. Medhora.

Industrial Development Bank of India, Post Box No. 1241, New India Centre, 17, Cooperage, Bombay 400021.

Regional Offices : Reserve Bank Bldg., 15, N. Subhas Rd., P. B. 45, Calcutta 700001 ; Kuralagam Bldg., Esplanade, P. B. 5030, Madras 600001; Bank of Baroda Bldg., 16, Parliament St., P. B. 231, New Delhi 110001 ; *Branch Offices :* Ahmedabad, Bangalore, Bhopal, Bhubaneshwar, Chandigarh, Cochin, Gauhati, Hyderabad, Jaipur, Jammu, Kanpur and Patna.

Functions : A wholly-owned subsidiary of the Reserve Bank of India in terms of the Industrial Development Bank of India Act, 1964 ; (*a*) to co-ordinate the activities and to supplement the resources of other financial institutions (including banks) ; (*b*) to provide direct assistance to industrial concerns ; (*d*) to plan and promote industries of key significance to the industrial structure, and (*e*) to adopt and enforce a system of priorities in promoting future industrial growth.

The Bank has also initiated regional surveys jointly with the Industrial Credit and Investment Corporation of India Ltd., the Industrial Finance Corporation of India and the Reserve Bank, to identify industrial potential in the backward areas.

Chairman : S. Jagannathan ; *Vice-Chairman :* V. V. Chari ; *General Manager :* C. S. Venkat Rao.

Industrial Finance Corpn. of India, *Head Office :* Bank of Baroda Bldg., 16, Parliament St., New Delhi 110001.

Regional & Branch Offices : Mehta Mahal, 15, Mathew Rd., Bombay 400004 ; 4, Mangoe Lane, Calcutta 700001 ; Raji Bldg., 147, Mount Rd., Madras 600006 ; 3-6-15, Shayeedyarjung Lane, Himayatnagar, Hyderabad 500029; Near Lal Bungalow, C. Girdharlal Rd., Ellis Bridge, Ahmedabad 380001 ; 22, M. Gandhi Rd., Bangalore 560001 ; Jeevan Tara Bldg., 5 Parliament St., New Delhi 110001.

Functions : It supplies medium and long-term capital to both private and public limited companies and co-operative societies incorporated and registered in India. The facilities offered by IFCI include : (*a*) Granting of loans in rupees and foreign currencies ; (*b*) Guaranteeing deferred payments for machinery and for foreign currency loans ; (*c*) Subscribing to and underwriting of equity, preference and debenture issues.

Chairman : Baldev Pasricha ; *General Manager :* Vacant.

Industrial Reconstruction Corpn. of India Ltd., 19, N. Subash Rd., (2nd Fl.), Calcutta 700001.

Rep. Office : Vandhna, 11, Tolstoy Marg, New Delhi 110001.

Functions : It has been set up jointly by the Govt. of India, Reserve Bank of India and other leading financial institutions as well as commercial banks in the country. It aims at promoting industrial development of the country through establishment, maintenance, development, expansion, re-organisation, diversification, rationalisation, modernisation of industrial concerns. Initially it has restricted its activities to the rehabilitation of sick and closed industrial units.

Chairman & Mg. Director : A. Niyogi ; *General Managers :* T. Tiwari and B. G. Roy.

Jute Corpn. of India Ltd., 1, Shakespeare Sarani, Calcutta 700016.

Regional Offices : In West Bengal : C/o Bechraj Baid, Chhotokothi, Cooch-Behar 736101 ; Baluchar, P. O. & Dist. Malda ; Hill Card Rd., Siliguri, Darjeeling Dist. ; C/o Smt. Manisha P. Biswas, 26/13, S. S. Sen Rd., Gorabazar, Behrampur, Murshidabad Dist. ; 35, R. N. Tagore Rd., P. O. Krishnagar, Nadia Dist. *In Bihar :* Rajeswari Niwas, Ranghbhumi, Purnea Dist. ; C/o Prof. Umesh Prasad Singh, Gangjala (Koshimahalla), Saharsa 852201. *In Assam :* Zoo Rd., Near Commerce College, Gauhati 781021 ; C/o Arabindo Mohan Roy, Ward No. 2, Elliot Rd., Dhubri, Goalpara Dist. ; C/o A. K. Kataki, Amalapatty, Nowgong 782001. *In Andhra Pradesh :* C/o Allied Properties, Tank Bund Rd., Vizianagaram 531201. *In Orissa :* Haripriya Bhawan, Dalmundai, Cuttack 753001.

Functions : (*i*) to undertake price support operations in respect of raw jute, (*ii*) to ensure remunerative prices to the growers through judicious commercial operations and improvements in the marketing of raw jute, (*iii*) to operate a buffer stock in raw jute in order to stabilise the prices of raw jute, (*iv*) to undertake import and export of raw jute and (*v*) to export jute goods and undertake their export promotion.

Chairman : Dwaipayan Sen ; *Mg. Director :* G. Ukil.

Machine Tool Corpn. of India Ltd., Beawar Rd., Ajmer 305001, Rajasthan.

Functions : Under this project, a total of 680 Grinding Machines and a large variety of special accessories at full rated capacity valued at about Rs. 44 million are expected to be manufactured every year. The Company's plant will provide employment to approximately 1,700 persons and will also give plenty of scope for the development of ancillary industries in and around Ajmer.

Chairman : Dr. S. M. Patil ; *Executive Director :* P. N. Malhan.

Metal Scrap Trade Corpn. Ltd., P-34, India Exchange Place, Calcutta 700001.

Functions : Canalised iron and steel scrap importer and exporter as well as canalised importer of old ships for breaking, with diversified activities in other allied fields.

Chairman : Dr. N. C. B. Nath ; *Mg. Director :* R. M. Krishnan.

Mica Trading Corpn., 62D, Sri Krishna Puri, Boring Rd., Patna 800013.

Functions : A subsidiary of Minerals & Metals Corpn. of India Ltd., it handles purchase and processing of mica for exports.

Regional Offices : At Calcutta, Madras and Giridih (Bihar) ; *Sub-regional Offices :* At Jhumri Telaiya (Bihar) and Gurdur (Andhra Pradesh).

Mineral Exploration Corpn. Ltd., Seminary Hills, Nagpur 440006.

Chairman : S. Ramachandran; *Mg. Director :* N. C. Jain; *Regional Offices :* B-192, University Marg, Bapu Nagar, Jaipur 302004; A-708, Sector 'C', Mahanagar, Lucknow 226006; 8/5, Alipur Park Rd., Calcutta 700027; 10-2-7, A.C. Guards, Hyderabad 500004; A 3/4, Vasant Vihar, New Delhi 110057.

Functions : To carry out detailed mineral exploration throughout the country for proving grade-wise reserves of minerals.

Chairman & Mg. Director : S. P. Nautiyal.

Minerals & Metals Trading Corpn. of India Ltd., Express Bldg., 9 & 10, Bahadur Shah Zaffar Marg, New Delhi 110001.

Functions : It undertakes export of iron ore, manganese ore, ferro-manganese, mica, coal and other minor minerals and import of steel, non-ferrous metals, rough diamonds, fertilizers etc. for supply to industrial units in the country. The Corporation has six Regional Offices at Bombay, Calcutta, Madras, Visakhapatnam, Vasco-da-Gama, Giridih and a foreign office in Tokyo (Japan).

Chairman : S. Ramachandran.

National Bldgs., Construction Corpn. Ltd., 44, Ring Rd., Lajpat Nagar III, New Delhi 110024.

Functions : (*a*) to improve the quality of construction works; (*b*) to bring down construction costs; (*c*) to take up construction work in border areas and inaccessible places where private contractors quote fancy rates; and (*d*) to take on the responsibility for supervising the works in such a way that the clients reduce their supervisory engineering personnel so as to bring down the ultimate construction costs.

The Corporation has set up a mechanised brick plant in Delhi to produce over 30 million bricks per year.

Mg. Director : P. P. Dharwadker

National Coal Development Corpn. Ltd., Darbhanga House, Ranchi 834001.

After the nationalisation of the coal industry and since the formation of the Coal Mines Authority Ltd., N.C.D.C. has now become a wholly owned subsidiary company of the Coal Mines Authority Ltd. Its operations extend to Bihar, Orissa and the Singrauli area lying partly in Madhya Pradesh and partly in Uttar Pradesh.

National Co-operative Development Corpn., C56, South Extn. II, New Delhi 110049.

Regional Offices : 15, N. Subhas Rd., R.B.I. Bldg., P. B. 2036, G.P.O., Calcutta 700001; 306, Sadashiv Nagar, Bangalore 560006; 44, Malaviya Nagar, Bhopal 462001; Boring Canal Rd., Patna 800001; 1, Ashok Nagar, Ganeshkhind, Pune 411016; Kothi No. 1081, Sector No. 27-B, Chandigarh; K. K. Bhattacharya Rd., Cheri Kuthi, Gauhati 871003.

Functions : To plan and promote programmes for the production, processing, marketing, storage, export and import of agricultural produce and notified commodities through co-operative societies.

National Industrial Development Corpn. Ltd., P.B. 5212, Chanakya Bhavan, Vinay Marg, New Delhi 110021.

Functions : To render Consultancy Engineering Services by way of detailed design and engineering of complete projects and preparation of detailed project reports. Its fields of specialisation include engg. industries, pulp and paper, electronics, metallurgical and ore handling projects. The services of the Corporation are being made use of by the Central Government, various State Governments, public sector enterprises and private entrepreneurs in India. Its services have also been availed of by the United Nations, foreign governments and entrepreneurs abroad.

Mg. Director : R. K. Sethi.

National Mineral Development Corpn. Ltd., Mukarramjahi Rd., Hyderabad 500001. (A subsidiary of Steel Authority of India Ltd.).

Purchase Office : 17, Camac St., Calcutta 700013; *Regional Offices :* Haroon Manzil, Thompson St., Visakhapatnam 530001; Nirmal Bldg., Nariman Point, Bombay 400021.

Functions : To exploit iron ore and diamond, and for this purpose, to purchase, take on lease or otherwise acquire mines for prospecting and developing, and work them for producing minerals.

The following projects have so far been assigned to the Corporation :

(*i*) Kiriburu Iron Ore Project, Kiriburu (Bihar); (*ii*) Diamond Mining Project, Panna (Madhya Pradesh); (*iii*) Bailadila Iron Ore Project, Deposit No. 14 (Madhya Pradesh); (*iv*) Bailadila Iron Ore Projects, Deposit No. 5 (Madhya Pradesh); (*v*) Donimalai Iron Ore Project (Karnataka) and (*vi*) Meghahatuburu Iron Ore Project, Kiriburu Township (Bihar).

Chairman & Mg. Director : G. Ramanathan.

National Projects Construction Corpn. Ltd., E9, Defence Colony, New Delhi 110024.

Functions : To provide the Central and State Governments with an organisation capable of undertaking the execution of river valley projects and allied civil engineering works requiring high technical skill, strict adherence to specifications and quality standards.

Chairman-cum-Mg. Director : Brig. K. U. K. Pandalai.

National Research Development Corpn. of India, 61, Ring Rd., Lajpat Nagar III, New Delhi 110024.

Functions : To stimulate development and commercial exploitation of patents and inventions arising from national research efforts and also patented inventions from individuals.

The Corporation also develops scientific research by arranging pilot plant and instituting developmental projects. Till March 1973, the Corporation has instituted 35 projects at a cost of about Rs. 12 million.

Chairman : M. S. Pathak; *Mg. Director :* Dr. C. V. S. Ratnam.

National Seeds Corpn. Ltd., 4E, Jhandewalan Extn., R. Jhansi Rd., New Delhi 110055.

Functions : It is responsible for organising a sound seed industry in India; concentrates on production of foundation seed of promising varieties evolved by research. It also arranges seed testing and seed production training courses.

Chairman : Deorao S. Patil; *Mg. Director :* N. S. Maini.

National Small Industries Corpn. Ltd., Near Ind. Estate, Okhla, New Delhi 110020.

Functions : To assist, counsel, finance and promote the interest of small industries in the country.

Chairman : K. N. Sapru.

National Textile Corpn. Ltd., 8th Fl., Surya Kiran Bldg., 19, Kasturba Gandhi Marg, New Delhi 110001.

Functions : To manage textile mills which may be taken over [illegible]r the Industries (Development & Regulation) Act, 1951 and under the Sick Textile Undertakings (Taking over of Management) Act, 1972. So far 57 mills have been taken over by the Govt. under the former act and 46 mills under the latter act.

Chairman : K. Sreenivasan; *Mg. Director :* J. C. Jetli.

Projects & Equipment Corpn. of India Ltd., Chandralok, 36, Janpath, New Delhi 110001.

Formed in April, 1971, as a subsidiary of the State Trading Corporation of India with complete autonomy in its marketing and commercial operations.

Functions : To co-ordinate and give point to the export of engineering, industrial and railway equipment from India ; to undertake turnkey job abroad and to co-ordinate efforts of public and private sector industries and help them with marketing opportunities abroad, tendering and negotiations, finance and foreign exchange, procurement of raw materials, quality control, delivery schedules, etc.

Chairman : R. K. Talwar ; *Exec. Director :* L. K. Dhawan.

Rehabilitation Industries Corpn. Ltd., 25, Free School St., Calcutta 700016.

Functions : To create employment opportunities through industries for the displaced persons from Bangladesh and to the migrants from West Pakistan (who have entered Indian territory as a result of the recent conflict with Pakistan), repatriates from Burma and Sri Lanka and persons of Indian origin migrated from other countries with the intention of permanently settling in India.

Chairman : Amitava Palchoudhury.

Rural Electrification Corpn. Ltd., D-5 South Extn. Part II, New Delhi 110049.

Functions : (*i*) To finance rural electrification schemes ; (*ii*) To subscribe to special rural electrification bonds that may be issued by the State Electricity Boards ; (*iii*) To promote and finance rural electric-co-operatives ; (*iv*) To administer the funds received from the Government of India and other sources as grants or otherwise.

Chairman : B. Venkatappiah ; *Mg. Director :* M. M. K. Wali.

State Farms Corpn. of India Ltd., 16/48, Malcha Marg, Chanakyapuri, New Delhi 110021.

Functions : To take over the administration of Central State Farms set up primarily for the production of seeds of foodgrains, fibre crops, plantation crops, oil seeds, vegetables, fruits, etc. It also renders the following services :—(*i*) Custom service to private farmers for land levelling, land shaping and soil conservation work on their lands, (*ii*) Repair and servicing of private tractors at the farm workshops, (*iii*) Consultancy service for the benefit of individuals, farms and institutions wanting advice on mechanisation of farms.

Chairman : M. R. Krishna ; *Mg. Director :* P. S. Habeeb Mohamed, I.A.S.

State Trading Corpn. of India Ltd., Chandralok, 36, Janpath, New Delhi 110001.

Functions : To broaden and enlarge the scope of Indian exports and to arrange for essential imports on an economical basis. For this purpose S. T. C. has 20 offices abroad.

Chairman : V. V. Parekh.

Tannery & Footwear Corpn. of India Ltd., 13/400, Civil Lines, Kanpur.

Functions : It manufactures leather goods of all types for civilian and military use. The Corporation also makes "Felix" brand footwear, flexobond cement and myrobalan extract powder for tanning and water purification.

The Corporation has the capacity to manufacture about two million pairs of footwear per shift per annum and has a network of distributors and retail dealers all over India for the sale of its products.

Mg. Director : S. L. Atal.

Tea Trading Corpn. of India Ltd., 225E, Acharya J. C. Bose Rd., Calcutta 700020.

Functions : To promote exports and local sales of packet tea and assist producers at tea auctions.

Dir.-in-Charge : T. C. Broca (Chmn., Tea Board).

Unit Trust of India, *Head Office :* Bombay Life Building, 45, V. Nariman Rd., Bombay 400021.

Regional Offices : 9, Mathew Rd., Bombay 400004 ; R.B.I. Bldg., 6, Parliament St., New Delhi 110001 ; 8, Council House St., Calcutta 700001 ; R.B.I. Bldg., Fort Glacis, Madras 600001.

Functions : It pools the savings of the community and invests them in securities of various types. To pool the savings, the Trust sells 'units'. All units rank equal for the distribution of income, regardless of when they are acquired. The Trust offers one other important and unique advantage : it is always ready both to sell and buy its units at prices published by it. A Unit holder is thus assured complete liquidity for his investment.

Some Salient Features : Besides the Trust's offices at Bombay, Calcutta, Delhi and Madras, units are on sale at over 16,000 branches of leading banks and at over 20,000 post offices throughout the country. Units can also be obtained through 379 'approved' brokers on the recognised stock exchanges and 4,481 individual agents appointed so far by the Trust.

The Trust is exempt from payment of income-tax and other taxes on income.

The Trust paid a dividend of 8·5 per cent for 1973-74.

Chairman : James S. Raj ; *Executive Trustee :* Dr. A. K. Banerjee.

Uranium Corpn. of India Ltd., P.O. Jaduguda Mines 832102, Singhbhum Dist., Bihar.

Functions : It is a wholly-owned Government of India enterprise under the Department of Atomic Energy. Its objectives are to provide the Uranium requirements for the Atomic Energy Programme of the country. The Corporation is to mine and process Uranium Ore and other ores and minerals containing Urangium in any form.

Chairman : Dr. Brahm Prakash ; *Mg. Director :* M. K. Batra.

STATE CORPORATIONS

ANDHRA PRADESH

Andhra Pradesh Dairy Development Corpn. Pvt. Ltd., 5-9-12, Saifabad, Secretariat Rd., Hyderabad 500004.

Functions : To step up milk production in rural areas, and to manage dairies, cooling and chilling plants ; to enhance procurement of milk and to assure proper marketing facilities for milk and milk products. It was registered in February, 1974.

Chairman : Dr. T. V. Reddy ; *Mg. Director :* K. V. S. Suryanarayana.

Andhra Pradesh Fisheries Corpn. Ltd., 618-1-A, Road No. 11, Banjara Hill, Hyderabad 500034.

Andhra Pradesh Ind. Development Corpn. Ltd., B-1-174, Fateh Maidan Rd., Hyderabad 500004.

Functions : Providing financial assistance and promoting industries directly ; providing technical assistance and

guidance; undertaking surveys and appraisal reports; arranging technical collaborations.
Mg. Director : M. Venkataratnam, I.A.S.

Andhra Pradesh Industrial Infrastructure Corpn. Ltd., 6-2-13, Saifabad, Hyderabad 500004.
Functions : To promote, establish, finance, manage and control schemes, industries, projects or programmes; to provide and develop infra-structure facilities including factory sites and sheds etc.; facilities of communications, power, water, drainage, housing, etc. to promote the development of industries and commerce in Andhra Pradesh.
Chairman : A. Krishnaswamy; *Mg. Director :* V. P. Rama Rao.

Andhra Pradesh Mining Corpn. Ltd., 11-5-401/1, Red Hills, Hyderabad 500004.
Functions : Prospecting and exploitation of some of the important minerals in the State. Setting up of mineral based industries with the collaboration of private sector.

Andhra Pradesh Small Scale Ind. Development Corpn. Ltd., 5-10-174, Fateh Maidan Rd., Hyderabad 500004.
Functions : Development of small scale industries by joint participation; establishment of technocrats' industrial estates and craftsmen guilds under 'Self-employment' scheme; distribution of scarce raw materials to small scale units in the State.
Chairman : K. S. Subba Rao; *Mg. Director :* C. Srinivasa Sastry, I.A.S.

Andhra Pradesh State Agro Industries Corpn. Ltd., Intekhab Manzil, 10-2-3, A.C. Guards, Hyderabad 500004.
Functions : It assists farmers in land development activities, drilling of bore wells, distribution of tractors, tractor tyres and tubes, diesel engines and electric motor pump sets through a subsidiary known as Agro Subsidiary Limited. The Corporation also prepares project reports for promotion of agro-based industries.

Andhra Pradesh State Construction Corpn. Ltd., 6-3-1119, Begumpet, Hyderabad 500016.
Functions : To take up construction of civil engineering works for the Government, industrial and public sector bodies at reasonable cost; to buy and sell construction material at reasonable prices, to provide consultancy service in the building trade, and to provide employment to qualified persons.
Chairman : M. Gopal Krishnan; *Mg. Director :* Satnarayan Singh.

Andhra Pradesh State Financial Corpn., 5-9-194, Chirag Ali Lane, Hyderabad 500001.
Functions : Financial assistance to all medium and small-scale industries, hotel industry, road transport industry, maintenance workshops, assembly and packing units established within the State.
Chairman : Maddi Sudarsanam; *Mg. Director :* O. Swaminatha Reddy.

Andhra Pradesh State Trading Corpn. Ltd., B-1-174 Fateh Maidan, Hyderabad 500001.

Andhra Pradesh State Warehousing Corpn., D.B.R. Mills, Kavadiguda, Secunderabad 500005.

Leather Ind. Development Corpn. of Andhra Pradesh Ltd., 3-6-150, Himayatnagar, Hyderabad 500029.
Chairman : C. R. Krishnaswamyrao Saheb; *Mg. Director :* K. Madhava Rao.

ASSAM

Assam Agro-Industries Development Corpn. Ltd., Ulubari, Gauhati 781007.
Functions : To assist farmers in modernising their cultivation and to provide farm machinery on rent to those farmers; to undertake setting up of and to assist entrepreneurs in setting up agro-based industries. The activities of the Corporation cover the States of Assam, Meghalaya and Nagaland and the territories of Tripura, Manipur, Arunachal Pradesh and Mizoram.
Mg. Director : Bhadreswar Hazarika.

Assam Financial Corpn., 'Glenerquart', Near Wards Lake, Shillong 973001.
Functions : To contribute to the industrialisation of the State of Assam, Meghalaya, Tripura and Manipur by providing credit (medium and long term) to industries.
Mg. Director : M. C. Barua.

Assam Govt. Construction Corpn. Ltd., Rupnagar, Gauhati 781005.
Chairman : Dr. L. Rahman; *Mg. Director :* K. D. Lahkar.

Assam Industrial Development Corpn. Ltd., Kannachal Rd., Silpukhuri, Gauhati 781003.
Functions : To promote major and large industrial projects and rendering assistance including share participation to entrepreneurs. Currently, the Corporation has undertaken the implementation of 1. Petro-Chemical Complex at Namrup, 2. N.P.K. Fertilizer Granulation Plant at Gauhati, 3. Sugar Mill at Cachar, 4. Jute Mill, 5. Cigarette Factory, 6. Nylon Filament Yarn Plant, 7. Paper Board Project at Dhing (Nowgong Dist.), 8. Mini Steel Plant, 9. Starch and Glucose Plant, 10. Rice Bran Oil Plant at Rowta.

Assam Small Industries Development Corpn. Ltd., Bamunimaidan, Gauhati 781021.
Chairman : D. N. Hazarika; *Mg. Director :* T. L. Baruah.

Assam State Warehousing Corpn., Shillong 793991.

BIHAR

Bihar State Agro-Industries Development Corpn. Ltd., Nageshwar Colony, Boring Rd., Patna 800001.
Function : To promote activities which will increase agricultural production and contribute to the production of subsidiary and supplementary food.
Chairman : B. L. Das, I.A.S.

Bihar State Financial Corpn., Fraser Rd., Patna 800001.
Functions : To provide financial assistance for setting up industrial concerns in the State.
Chairman : Jainarayan; *Mg. Director :* M. C. Subarna.

Bihar State Industrial Development Corpn. Ltd., Bandar Bagicha, Patna 800001.
Functions : Setting up medium and large scale industries in the public/joint sectors, and giving financial assistance to medium and large scale industries in the private sector. The company has at present four factories under operation :—(*i*) Bihar State Superphosphate Factory at Sindri; (*ii*) High Tension Insulator Factory at Ranchi; (*iii*) Electric Equipment Factory at Ranchi and (*iv*) Bihar Spun Silk Mills at Bhagalpur.
Chairman : S. N. Singh; *Mg. Director :* A. Pathak.

Bihar S[illegible] Small Industries Corpn. Ltd., B.C.I. Bldg., East Gandhi Maidan, Patna 800004.
Functions : (*a*) Manufacturing products like bicycles, auto-batteries, locks, agricultural implements, wooden furniture, hosiery goods, roofing tiles, potteries, mechanical toys, leather and leather goods, aluminium utensils,

cottage industries and handicraft products and their marketing. (*b*) Management of industrial estates. (*c*) Supply of scarce raw materials to S.S.I. units.

Chairman : Sudama Mishra ; *Mg. Director :* J. N. Prasad.

Bihar State Text Book Publishing Corpn. Ltd., White House, Budh Marg, Patna 800001.

Functions : It looks after the work of preparation, production and distribution of nationalised school textbooks, and also ensures timely supply of quality textbooks at a low price to the school students of the State.

Mg. Director : Surendra Prasad.

DELHI

Delhi Financial Corpn., Saraswati Bhavan, E-Block, Connaught Place, New Delhi 110001.

Functions : To stimulate industrial growth the Corporation advances loans to industrial units set up or to be set up in the Union Territories of Delhi and Chandigarh.

Chairman : K. K. Srivastava, I.A.S. ; *Mg. Director :* Kaushal Kumar, I.A.S.

Delhi Small Industries Development Corpn. Ltd., A-3/4, State Emporia Bldg., Baba K. Singh Marg, New Delhi 110001.

Chairman & Mg. Director : G. S. Shrivastava.

GOA

Economic Development Corpn. of Goa, Daman & Diu, Panaji 403001.

Acting Chairman : R. L. Chowgule ; *Mg. Director :* S. G. Nadkarni.

Goa, Daman & Diu Industrial Development Corpn., Panaji 403001.

Functions : To assist in the rapid and orderly establishment of industries in the Territory.

Chairman, Mrs. Shashikala G. Kakodkar ; *Chief Executive Officer :* S. G. Nadkarni.

GUJARAT

Gujarat Agro-Industries Corpn. Ltd., Khet Udyog Bhavan, Opp. High Court, Ahmedabad 380014.

Functions : To promote enterprises for the manufacture of agricultural inputs and for processing, preservation and distribution of agricultural products ; to distribute farm machinery for dairying, poultry, fishery and allied industries ; and to provide managerial and technical guidance for setting up agro-based industries.

Chairman : Dr. Devshibhai Patel ; *Mg. Director :* Y. V. Pai, I.A.S.

Gujarat Dairy Development Corpn., 2, Sector No. 9, Gandhinagar 382010.

Gujarat Export Corpn. Ltd., Udyog Bhavan, Ranchhodlal Marg, Ahmedabad 380009.

Functions : Facilitating, promoting and expanding export trade of products manufactured in Gujarat. Provides assistance like marketing, finance, raw materials, etc. for the export trade.

Mg. Director : B. H. Raval.

Gujarat Industrial Development Corpn., Fadia Chambers, Ashram Rd., Ahmedabad 380009.

Functions : (1) To promote and assist development of industries, (2) to establish and manage industrial estates and (3) to undertake schemes or works either singly or jointly with other corporate bodies or institutions, Government or local authorities.

Chairman : Shantilal Zaveri.

Gujarat Industrial Investment Corpn. Ltd., Natraj Chambers, Ashram Rd., Ahmedabad 380009.

Functions : Promoting industrial development ; participation in the equity/preference capital ; offering loans for industry ; capital participation with commercial banks of special schemes for promoting technicians/entrepreneurs starting own projects.

Chairman : R. D. Shah ; *Mg. Director :* Anil C. Shah, I.A.S.

Gujarat Mineral Development Corpn. Ltd., Natraj Theatre Building, Ashram Rd., Ahmedabad 380009.

Functions : To undertake mining and development of minerals in Gujarat. The Corporation has already set up five projects at Vadodara, Surendranagar, Jamnagar, Kutch and Banaskantha districts.

Chairman : Vithalbhai P. Amin ; *Mg. Director :* P. R. Chauhan, I.A.S. (Retd.).

Gujarat Sheep & Wool Development Corpn. Ltd., Anand Bldg, Mirzapur Rd., Ahmedabad 380001.

Chairman : G. K. Singhania ; *Mg. Director :* K. K. Kak.

Gujarat Small Industries Corpn. Ltd., Bhagwati Chambers, Opp. Gujarat Vidyapith, Ashram Rd., Ahmedabad 380013.

Functions : To assist the small-scale industries in the procurement and distribution of controlled raw materials ; to supply machinery on hire purchase basis ; to assist in marketing their products ; to procure quality machine tools ; to encourage development of ancillary industries by setting up promotional projects ; and setting up of a Functional and Development Centre at Vadodara to assure quality electronic project.

Chairman : Ravindra M. Mehta.

Gujarat State Construction Corpn. Ltd., Gandhinagar.

Gujarat State Financial Corpn., Jaldarshan Bldg., Ashram Rd., P.B. 4030, Ahmedabad 380009.

Functions : Financial assistance to small, medium and large scale industries in rupee and foreign currencies, and underwriting of shares of industrial units in Gujarat, guaranteeing deferred payment on machineries acquired in India and subscribing the debentures of industrial concerns. GSFC and GIDC have started a new 'Entrepreneurs Scheme' under which 100 per cent finance is available.

Chairman : L. R. Dalal, I.C.S. ; *Mg. Director :* H. R. Patankar, I.A.S.

Gujarat State Handicraft & Handloom Development Corpn. Ltd., Ashram Rd., Ahmedabad 380009.

Chairman : Mrs. Mrinalini Sarabhai.

Gujarat State Machine Tool Corpn. Ltd., Natraj Chambers, Ashram Rd., Ahmedabad 380009.

Gujarat State Road Transport Corpn., Vahan Vyavahar Bhavan, Ahmedabad 380022.

Chairman : Natverlal C. Shah.

Gujarat State Textile Corpn. Ltd., Handloom House, 1st fl., Ashram Rd., Ahmedabad 380009.

Functions : It is being appointed as authorised controller by the Central Government under Industries (Development & Regulation) Act, 1951, for providing employment to the workers rendered jobless due to the closure of the mills. At present the Corporation runs eight mills.

Chairman : K. P. Shah ; *Mg. Director :* J. G. Shah.

Gujarat State Warehousing Corpn., Shanti Sadan Est., Mirzapur Rd., Ahmedabad 380001.

Mg. Director : D. D. Majumdar.

HARYANA

Haryana Agro-Industries Corpn. Ltd., Kothi, No. 8, Sector 9-A, Chandigarh 160017.

Haryana Agro-Industries Corporation is a joint venture of the Government of India and the State Government with 50 : 50 share capital participation.

Functions : 1. To aid, finance and promote agro-industries and the manufacture of agricultural implements and machinery ; 2. To organise setting up of workshops ; 3. To assist the unemployed technically qualified personnel for setting up of agro service centres ; 4. To promote or conduct any agricultural and commercial enterprises.

Chairman : G. D. Goyal ; *Mg. Director :* M. Kutappan I.A.S.

Haryana Dairy Development Corpn. Ltd., S.C.O., No. 6 & 7, Sector 17-B, Chandigarh 160017.

Functions : To set up and operate milk procurement centres, dairy plant for processing, manufacturing and marketing of milk and milk products ; to promote and finance suitable programmes and services for producing more and better milk with modern techniques.

Chairman : S. K. Misra ; *Mg. Director :* L. Isa Dass.

Haryana Financial Corpn., 17, 18, 19, Sector 17A, Chandigarh 160017.

Functions : It has been set up to cater to the financial requirements of small and medium-scale industries and road transport operations in the State of Haryana.

Chairman : S. K. Misra, I.A.S. ; *Mg. Director :* R. L. Sudhir, I.A.S.

Haryana State Industrial Development Corpn. Ltd., P.B. 22, S.C.O. 4 & 5, Sector 17A, Chandigarh.

Functions : To sponsor medium and large-scale industries in the public and joint sectors ; to underwrite issue of shares and direct capital participation ; development of industrial estates ; to get profitability and feasibility reports prepared for new entrepreneurs ; various other activities for planned industrial development of Haryana State.

Chairman : S. K. Misra, I.A.S. ; *Mg. Director :* J. D. Gupta, I.A.S.

Haryana State Small Industries & Export Corpn. Ltd., 2nd Floor, Bank of India Building, Sector 17-B, Chandigarh 160017.

Functions : To export quality goods at competitive prices such as handlooms, handicrafts, automobile parts, bicycles, railway shock absorbers, machine tools, printing machines, pulling and lifting machines, weights and measures, industrial fasteners, refrigerators and coolers, laboratory instruments, electronic instruments etc. etc.

Chairman : S. K. Misra, I.A.S. ; *Mg. Director :* J. D. Gupta, I.A.S.

HIMACHAL PRADESH

Himachal Pradesh Agro-Industries Corpn. Ltd., Summer Seat, Simla 171001.

Chairman : Y. S. Parmar ; *Gen. Manager :* R. S. Rana.

Himachal Pradesh Mineral & Industrial Development Corpn. Ltd., "Himrus", Near Himland Hotel, Simla 171001.

Chairman : U. N. Sharma ; *Mg. Director :* S. K. Chauhan.

Himachal Pradesh State Forest Corpn. Ltd., Willow Bank, The Mall, Simla 171001.

Mg. Director : E. S. Das.

Himachal Pradesh State Small Industries & Export Corpn. Ltd., Kishore Bhawan, The Mall, Simla 171001.

Functions : Procurement and distribution of various raw materials to small-scale industrial units ; manufacture of textiles, footwears, tannery products, handicrafts, hosiery, etc. on commercial lines ; provides know-how and information on all aspects of export trade.

Chairman : Sagar Chand Nayar ; *Mg. Director :* Miss Manjula Mahajan, I.A.S.

JAMMU & KASHMIR

Jammu & Kashmir State Financial Corpn., P.W.D. Bldgs., Residency Rd., Srinagar 190001 ; P.W.D. Bldgs., Nehru Market, Jammu 180001.

Functions : To establish small and medium scale industries and expand and modernise existing industries by providing financial assistance. Loans are also granted to hotel, houseboat and transport industries.

Chairman : S. Banerji I.A.S. ; *Mg. Director :* K. M. Kishinchandani.

Jammu & Kashmir State Industrial Development Corpn. Ltd., Haft Chinar, Srinagar 190001.

Chairman : S. Banerji ; *Mg. Director :* Dr. M. Habib-Ullah.

KARNATAKA

Karnataka Agro-Industries Corpn. Ltd., Hebbal, Bangalore 560024.

Functions : Supply of all agricultural machineries on cash basis ; distribution of agricultural inputs.

Chairman : D. B. Pawar ; *Mg. Director :* B. P. Balakrishna.

Subsidiaries : Karnataka Agro-Corn Products Ltd. ; *Ex. Director :* N. R. Goudar. Karnataka Agro-Seeds Corpn. Ltd., *Mg. Director :* Dr. S. R. Chandrashekharaiah.

Karnataka Fisheries Development Corpn. Ltd., Hoige Bazar, Mangalore 575001.

Functions : The Corporation at present operates 14 ice-cum-cold storages cum freezing plants, 2 boat-building yards, which turn out various types of mechanised boats, 4 refrigerated vans, 4 insulated vans, 2 deep sea trawlers, and has also undertaken to export 260 tonnes of frozen sea-foods and marketing of 150 tonnes of fresh and frozen fish in the inland markets.

Chairman : L. Ananda ; *Mg. Director :* M. Jayaraj.

Karnataka Small Industries Corpn. Ltd., Administrative Office Bldg., Ind. Estate, Rajaji Nagar, Bangalore 560044.

Functions : To assist, finance and to promote the interests of the small-scale industrialists in the State ; construction, and maintenance of industrial estates ; procurement and sale of scarce raw materials ; supply of machinery on hire-purchase ; rendering of marketing assistance. Recognised export house for the export of products of small scale industries in Karnataka.

Chairman and *Mg. Director :* K. S. N. Murthy.

Karnataka State Financial Corpn., 1/1, 11 Main Rd., Malleswaram, Bangalore 560003.

Functions : Offers financial assistance for (1) manufacture, preservation or processing of goods, (2) mining, (3) hotel industry, (4) transport by road, water or air, (5) generation or distribution of electricity, (6) fishing or providing shore facilities for fishing, (7) developing of industrial estates, (8) servicing of machineries, (9) foreign currency loans for import of capital equipment and technical know-how from any member country of the World Bank, (10) financial assistance to technician entrepreneurs.

Chairman : C. S. Balakrishna Gowda ; *Mg. Director :* C. S. Seshadri, I.A.S.

Karnataka State Forest Industries Corpn. Ltd., 59, Pottipati House, 8th Cross, Malleswaram, Bangalore 560003.

Functions : Export of rosewood logs; manufacture of essential oils like eucalyptus citriodora oil, lemongrass oil, etc.; to establish a green grass dehydration and pelletisation plant in North Kanara dist., paper mill, mini paper and pulp unit, rubber tyre factory, straw board factory, chocolate plant, manufacture of tartaric acid and safety matches, lumbering, saw milling, etc.

Chairman : R. J. Rebello; *Mg. Director :* V. N. Nadgir.

Karnataka State Handicrafts Development Corpn. Ltd., 26/45, M. Gandhi Rd., Bangalore 560001.

Functions : The Corporation has been running handicrafts emporia under the name " KAVERI " at Bangalore, Mysore, Mangalore, Belgaum, Hubli and Gulbarga in Karnataka State and in Delhi.

The Corporation has also started production centres for high quality sandalwood carving, bronze castings, wood carving, lacquerware and potteryware. Financial assistance and design assistance are provided to artisans. The Corporation has also undertaken export of handicrafts.

Mg. Director : W. Nazareth.

Karnataka State Industrial Investment & Development Corpn. Ltd., " Hari Nivas ", 36, Cunningham Rd., Bangalore 560052.

Functions : The main objectives of this Corporation, are to promote, improve and establish industries; to aid assist and finance industrial undertakings and underwrite the stock, shares etc.

Chairman & Mg. Director : M. D. Shivananjappa, I.A.S.

Karnatak State Tourism Development Corpn. Ltd., George Oakes Bldg., Bangalore 560002.

Chairman : Azeez Sait; *Mg. Director :* M. D. Mariputanna.

Mysore Power Corpn. Ltd., 37/4 Cunningham Rd., Bangalore 560052.

The Corporation at present owns Sharavathi and Bhadra Hydro Electric Projects and is engaged in the construction of the Kalindi Hydro Electric Project in N. Kanara district.

Chairman : H. M. Channabasappa; *Mg. Director :* P. R. Nayak.

KERALA

Handicrafts Development Corpn. of Kerala Ltd., Putenchanthai, Trivandrum 695001.

Functions : (1) To develop and promote handicrafts; (2) To provide financial, technical, marketing or any other assistance; (3) To promote, establish and operate sales offices, such as emporia, show room, publicity offices, stalls and centres with the object of improving the marketability of Kerala handicrafts anywhere within and outside India.

Chairman : M. Kunju Krishnan; *Mg. Director :* K. Prabhakaran.

Kerala Agro-Industries Corpn. Ltd., Regd. Office: Kissan Jyothi, Fort, Trivandrum 695023.

Functions : (1) To promote mechanisation of agriculture, (2) to finance the purchase of agricultural machines, and implements and (3) to provide other agricultural inputs.

Chairman : P. G. Murlidharan; *Mg. Director :* C. Subramaniam.

Kerala Employment Promotion Corpn. Ltd., 16/171-A, "Pushpavanam", Poojapura, Trivandrum 695012.

Functions : To promote the development of small scale and medium industries, industrial estates, service centres or other infrastructural works on its own or as agents.

Chairman & Mg. Director : R. Narayanan; *Exec. Director :* N. H. Rajkumar.

✓**Kerala Financial Corpn.,** K.F.C. Bldgs., Vellayambalam, Trivandrum 695001.

Functions : The Corporation provides financial assistance to industrial concerns in order to quicken long term-credit to industrial concerns in the State.

Chairman : B. V. Abdulla Koya; *Mg. Director :* T. P. Balakrishnan Unni.

Kerala Fisheries Corpn. Ltd., XVI/848 B, Shanmugham Rd., Ernakulam, Cochin 682011.

Functions : To assist fishermen producing better quality products for foreign markets; to obtain foreign assistance and collaboration wherever necessary. At present it has 5 ice and freezing plants, 7 ice and cold storage plants, 5 boat building yards, 2 fish meal plants and 1 nylon net factory at various points.

Chairman : K. R. Vijayan; *Mg. Director :* S. N. Rao.

Kerala Handloom Finance Corpn. Ltd., P.M. 128, Thilleri Rd., Cannanore 670001.

Chairman : V. Seshan; *Mg. Director :* K. Narayanan.

Kerala Land Development Corpn. Ltd., 44, Shanti Nagar, Trivandrum 695001.

Functions : To promote, undertake, finance and execute land development schemes for agriculture and allied activities. The Kuttanand Development Project has been taken up to augment output of rice and coconut in the region.

Chairman & Mg. Director : C. Thomas.

Kerala State Agro-Machinery Corpn. Ltd., P.O. Athani, Angamali South, Ernakulam Dist.

Function : Manufactures of Kubota power tillers with a licenced capacity of 12,000 number per year.

Mg. Director : C. Subramaniam.

Kerala State Bamboo Corpn. Ltd., Angamally 683572.

Chairman : Smt. Sarla Gopalan; *Mg. Director :* K. Prabhakaran.

Kerala State Cashew Development Corpn. Ltd., P. B. No. 13, Quilon 691001.

Functions : Importing and collecting from indigenous sources and processing cashew nuts for export. To help in the development of plantations and the manufacture of cashew by-products.

Chairman : N. Raman Pillai; *Mg. Director :* P. G. Sukumaran Nair.

Kerala State Coir Corpn. Ltd., P. B. No. 191, Alleppey 688001.

Functions : To aid, advise, finance and protect the interest of coir industry in Kerala. The Corporation is the manufacturer and exporter of all varieties of coir and coir products.

Chairman : C. G. Sadasivan; *Mg. Director :* V. K. Narayanan.

Kerala State Development Corpn. for Scheduled Castes & Scheduled Tribes Ltd., XXIII/201 A, Karikath Lane, Trichur 680001.

Chairman : K. Kunhambu; *Mg. Director :* K. Uppiliappan.

Kerala State Electronics Development Corpn. Ltd., 1133 & 34, Sasi Vihar, Peroorkada, Trivandrum 695005.

Functions : To promote electronic industrial project by assisting entrepreneurs, and aid research and to market electronic products in India and abroad.

Chairman & Mg. Director : K. P. P. Nambair.

Kerala State Industrial Development Corpn. Ltd., Purushotham, Sasthamangalam, Trivandrum 695010.

Functions : Joint stock companies registered in India and co-operative societies which are engaged or have for their objects the establishment and operation of industries and have a share capital of not less than Rs. 0·5 million are eligible to receive assistance from the Corporation. **The assistance will be given to large-scale and medium** sized industries. Special incentives offered to industrial units in the notified backward areas of the State.

Chairman : K. T. Chandy ; *Mg. Director :* P. J. Thomas.

Kerala State Small Industries Corpn. Ltd., P. B. 50, Chenthitta, Trivandrum 695001.

Functions : Distribution of raw materials to small scale industrial units ; supply of machinery on hire purchase ; civil construction works ; manufacture of dies, die-cast components, survey and levelling instruments, ready-made garments, ceramic wares, strawboards, roofing and flooring tiles etc., civil works ; and administration of industrial estates.

Chairman : Babu Jacob, I.A.S. ; *Mg. Director :* K. O. Isaac.

Kerala State Textile Corpn. Ltd., 'Aswathi', Alappat Cross Rd., Ravipuram, Ernakulam, Cochin 682016.

Functions : The Corporation manages the nationalised textile mills and State Government mills and plants in Kerala taken over by the Govt. of India.

Chairman : K. T. Chandy ; *Tech. Director :* S. Sitaraman.

Kerala Tourism Development Corpn. Ltd., Mascot Hotel Bldgs., Trivandrum 695001.

Chairman : P. Narayanan Nair ; *Mg. Director :* T. O. Khathir Pillai.

Kerala Urban Development Finance Corpn. Ltd., Tej Bhawan, New Rd., Calicut 673005.

Functions : The Corporation provides financial assistance to urban local bodies in the State and also gives technical and other assistance for their developmental schemes.

Mg. Director : K. P. M. Rowther.

Plantation Corpn. of Kerala Ltd., P. B. 12, Kottayam 686004.

Area under rubber : 7,027 hectares. Area under yielding: 4,994 hectares. The Corporation manufactures all grades of sheet, crepe and concentrated latex.

MADHYA PRADESH

Madhya Pradesh Audyogik Vikas Nigam Ltd., 36, Bhadbhada Rd., New Market, Bhopal 462003.

Functions : It aims to promote the establishment of industries by providing them with financial, technical and other assistance.

Mg. Director : P. G. Mankad, I.A.S.

Madhya Pradesh Financial Corpn., Shiv Vilas Palace, Indore 452004.

Functions : Renders financial assistance to industrial units in private and co-operative sectors. The term of loan from the Corporation may be upto 20 years. Loans are also available under I.D.A. line of credit.

Chairman : M. Y. Godbole.

Madhya Pradesh Laghu Udyog Nigam, Maheshwari Bhavan, Civil Lines, Bhopal 462001.

It manages and runs the State-owned industries and is engaged in the promotion of a few joint sector projects. (See also under State Govt. Undertakings).

Madhya Pradesh State Agro-Industries Development Corpn. Ltd., New Market, Tatyatope Nagar, Bhopal 462001.

Functions : It helps promote and establish agro-based industries ; distributes and hires farm machinery and equipments and sells agricultural inputs ; and trains and finances educated unemployees to set up agro-service centres and industries. It is developing a mechanical farm at Hoshangabad, a khandsari sugar mill at Varsinghpur, a fertiliser granulation plant at Itarsi and a cold storage at Chhindwara.

Chairman : N. S. Deo ; *Mg. Director :* S. C. Behar.

Madhya Pradesh State Industries Corpn. Ltd., Maheshwari Bhavan, Civil Lines, Bhopal 462002.

Functions : To run the State Sector industries and to participate in Joint Sector.

Madhya Pradesh State Mining Corpn. Ltd., E-1/2, Arera Colony, Bhopal 462014.

Functions : The Corporation is engaged in mining of rock phosphate, limestone, dolomite, bauxite, silica sand, pyrophyllite, and diaspore.

Chairman : K. A. Bhanot ; *Mg. Director :* V. C. Varma.

Madhya Pradesh State Textile Corpn. Ltd., 35, Civil Lines, Bhopal 462002.

Functions : The Corporation manages the textile mills in the State taken over under the Industries (Development & Regulation) Act, 1951 and Sick Textile Undertakings (taking over of Management) Act, 1953 It also manages a spinning mill on lease and has plans to start a polyester zari plant and three new cotton mills.

Mg. Director : B. V. Vora.

MAHARASHTRA

City & Industrial Development Corpn. of Maharashtra Ltd. (CIDCO), 2nd Fl., Nirmal, Nariman Point, Bombay 400021.

Functions : It was established in March 1970 with the object of developing (1) A new city across the harbour from Bombay. The new city, to be called New Bombay, will extend over an area of about 343·70 sq. kms. in the Panvel-Thana-Uran triangle of Thana and Kolaba Districts ; (2) New Aurangabad, to facilitate development of the Aurangabad city in Marathwada and (3) Bandra-Kurla Reclamation Scheme in Greater Bombay.

Chairman : N. M. Wagle ; *Mg. Director :* K. Sivaramakrishnan.

Development Corpn. of Konkan Ltd., Warden House, Sir P. Mehta Rd., Bombay 400001.

Functions : To promote industrial growth in the districts of Thana, Kolaba and Ratnagiri.

Actg. Mg. Director : M. T. Sule.

Development Corpn. of Vidarbha Ltd., Mahajan Bldg., Main Rd., Sitabuldi, Nagpur 440012.

Functions : To achieve orderly industrialisation of the 8 districts of Vidarbha. To this end the Corporation is setting up [illegible]ts on its own or as joint sector ventures, and is also preparing viable schemes to help would-be entrepreneurs. Accordingly the Corporation has under implementation projects on seeds, dairy, tussar silk, H-T insulators and refractory bricks.

Chairman : Ramkrishna J. Bajaj ; *Mg. Director :* P. S. Palande, I.A.S.

Forest Development Corpn. of Maharashtra Ltd., 6A, Nawab Layout, Tilak Nagar, Nagpur 440010.

Irrigation Devpt. Corpn. of Maharashtra Ltd., 595, Sadashiv Peth, Laxmi Rd., Pune 411030.

Functions : To promote, investigate, execute and manage schemes such as lift irrigation and minor, medium or major irrigation projects in the State.

Mg. Director : G. M. Vaidya.

Leather Ind. Development Corpn. of Maharashtra Ltd., Bombay Life Bldg., 45, Veer Nariman Rd., Bombay 400023.

Maharashtra Agricultural Development & Fertiliser Promotion Corpn. Ltd., (MAFCO), Mistry Bhavan, D. Vachha Rd., Bombay 400020.

Functions : To develop the storage, processing and marketing of perishable agricultural produce in order to ensure that the agricultural producer gets a fair price and the consumer obtains a quality product at a reasonable rate.

Mg. Director : Ranjit Singh Pal.

Maharashtra Agro-Industries Development Corpn. Ltd., Rajan House, Near Century Bazar, Bombay 400025.

Functions : To promote improved agricultural practices by manufacture and distribution of agricultural implements, fertilizers, animal and poultry feed compounds, agricultural iron and steel, and setting up cold storage and fruit preservation facilities and agro-service centres.

Chairman : S. G. Pawar ; *Mg. Director :* T. K. Sethuraman.

Maharashtra Industrial Development Corpn., Marol Ind. Area, Mahakali Caves Rd., Mulgaon, Andheri (East), Bombay 400093.

Functions : To promote and assist in the development of industries ; to establish and manage industrial estates ; to assist financially, industries by loans to move their factories to industrial estates or areas ; and to provide built-up sheds to technicians.

Chairman : N. M. Tidke ; *Ch. Ex. Officer :* M. P. Pinto, I.A.S.

The Corporation has set up a separate division called the **Maharashtra Investment Centre,** which has its office on the 5th floor, Orient House, Mangalore St., Ballard Estate, Bombay 400038. The Centre gives information to prospective entrepreneurs about the facilities offered by the Corporation and other organisations.

Maharashtra Small-Scale Industries Development Corpn. Ltd., 45, V. Nariman Rd., Fort, Bombay 400023.

Functions : To aid, assist, finance and promote small industries and to procure capital or financial assistance or accommodation for, or provide machinery, equipment, technical and managerial assistance to small industries.

Chairman : G. B. Newalkar ; *Mg. Director :* V B. Mandlekar, I.A.S.

Maharashtra State Farming Corpn. Ltd., 6th Fl., Khetan Bhavan, 198, J. Tata Rd., Bombay 400020.

Functions : Cultivation and management of the surplus lands of the joint stock sugar companies in Maharashtra vesting in the Government under the provisions of the Maharashtra Agricultural Lands (Ceiling on Holdings) Act, 1961 and granted to the Corporation.

Chairman : H. G. Vartak ; *Managing Director :* P. G. Salvi.

Maharashtra State Financial Corpn., Dharmadaya Ayukta Bhavan, 83, Dr. A. Besant Rd., Worli, Bombay 400018.

Regional Offices : National Indian Building, Mount Road Extension, Nagpur 440001 ; MSFC Bldg., Opp. Fire Brigade Station, Station Rd., Aurangabad 431001 ; Jay Dhaval Bldg., Laxmipuri, 1519, C Ward, Kolhapur 416001 ; S.P. College Compound, above Post Office, Tilak Rd., Pune 411030 ; United India Bldg., Sir P. Mehta Rd., Fort, Bombay 400001 ; Gomantak Bldg., St. Inez, Panaji 403001 (Goa).

Functions : The Corporation provides financial assistance to medium and small-scale industrial concerns in Maharashtra State and in the Union Territory of Goa, Daman and Diu for purchase of land, plant and machinery, construction of factory buildings and for expansion of existing units. Assistance is also available to qualified technicians ; educated unemployed persons without margin ; and industrially backward areas at concessional rate of interest.

Maharashtra State Powerlooms Corpn. Ltd., Lotus House, 33A, New Marine Lines, Bombay 400020.

Functions : To rehabilitate the powerloom industry and to assist the weavers, who are economically weak ; the Corporation undertakes various operations in production, marketing and sale of cloth.

Chairman : A. R. Bhide ; *Mg. Director :* M. R. Anandrao.

Maharashtra State Textile Corpn. Ltd., 'Vashani Chambers', 47, New Marine Lines, Bombay 400020.

Functions : The Corporation was set up to take over sick textile mills in the State and to run them as unemployment relief measures ; to set up new spinning and composite units in the public sector. At present there are 24 textile mills under its management.

Chairman and *Mg. Director :* P. Abraham.

Maharashtra State Warehousing Corpn., 18, Bombay Rd., Pune 411003.

Functions : The Corporation has established warehouses at 104 centres all over Maharashtra State. Against warehouse receipts issued by the Corporation, the depositors can secure advances from Scheduled Banks, State Bank of India and Dist. Central Cooperative Banks.

Mg. Director : V. K. Tulshibagwale.

Maharashtra Tourism Development Corpn., C/o Directorate of Tourism, Express Towers, Nariman Pt., Bombay 400021.

Directors : Miss Malati Tambe-Vaidya & L. K. Gatne.

Marathwada Development Corpn. Ltd., Anvikar Bldg., Adalat Rd., Aurangabad 431001.

Functions : To promote, establish and assist industries for the industrial development of Marathwada region. It has floated new companies : Textile Corporation of Marathwada Ltd. (for powerlooms), Dairy Development Corporation of Marathwada Ltd. and Leather Industries Corporation of Marathwada Ltd.

Chairman : B. A. Kulkarni ; *Mg. Director :* A. K. Phukan.

State Industrial & Investment Corpn. of Maharashtra Ltd., 'Nirmal', Nariman Point, Bombay 400021.

Functions : To promote development of industries in the under-developed areas of Maharashtra State by assisting industries in the private sector by underwriting support/equity participation in the capital issues, by grant of long-term loans and in the joint sector by promoting new industrial projects.

Textile Corpn. of Marathwada Ltd., Anvikar Bldg., Adalat Rd., Aurangabad 431001.

Functions : An associate company of the Marathwada Development Corpn. Ltd. ; it has set up its pre-weaving unit and process house in Nanded. The processing capacity is 120,000 metres per day. Production started in April, 1972.

Chairman : B. K. Chougule, I.A.S. ; *Director :* A. K. Phukan, I.A.S.

Western Maharashtra Development Corpn. Ltd., Indian Red Cross Society Bldg., 11, Mahatma Gandhi Rd., Pune 411001.

Functions : To promote the establishment of industries in the Western Maharashtra region.

Chairman : V. B. Salunke ; *Mg. Director :* V. Prabhakaran, I.A.S.

MANIPUR, MEGHALAYA & NAGALAND

Manipur Small Industries Corpn. Ltd., Paona Bazar, Imphal 795001.

Functions : To assist, finance and promote the interests of small industries in the State.

Mg. Director : Y. Bir Chandra Singh.

Meghalaya Industrial Development Corpn. Ltd., P. Box No. 9, Shillong 793001.

Nagaland Industrial Development Corpn. Ltd., Dimapur 797112.

ORISSA

Industrial Development Corpn. of Orissa Ltd., P. B. 78, Bhubaneswar 751001.

Functions : The Corporation has eight running industries (1) Kalinga Iron Works, Barbil; manufacturers of superior foundry grade pig iron ; (2) Hira Cement Works, Bardol, Sambalpur 768001 ; (3) The Ferro-chrome Project, Jajpur Rd., Cuttack 753001 ; manufacturers of high carbon ferro-chromium and high carbon silicon-chromium ; (4) Hira Cable Works, Hirakud 786016 ; manufacturers of ACSR & AAC Cables, enamelled copper and paper covered wires and strips ; (5) Re-rolling Mill, Hirakud 768016 ; manufacturers of bars, rods, angles, tor-steel and light structurals ; (6) Hirakud Industrial Works, Hirakud 768016 ; manufacturers of Khandsari sugar machinery, pugmill tile presses, rice haulers etc. ; (7) Tile Factory, Choudwar, Cuttack 753001 ; manufacturers of various kinds of tiles and (8) East Coast Salt & Chemical Industries, Sumandi, Ganjam ; manufacturers of edible and industrial grade salt.

Prospective units : Ingot Casting Plant, Hirakud, 768016. Jute Mill, Dhanmandal, Cuttack 753001.

Chairman : B. C. Mathur, I.A.S. ; *Mg. Director :* S. N. Das Mahaptra.

Industrial Promotion & Investment Corpn. of Orissa Ltd., 35, Satyanagar, Bhubaneswar 751001.

Orissa Construction Corpn. Ltd., P. B. 82, Bhubaneswar 751001.

Functions : It has completed a number of high level bridges, dams, syphons, aqueducts, aerodrome, ferro-chrome plant, transmission tower foundation etc. Major works now in hand, include an irrigation dam, hydel power house, harbour slipway, bridges, fertiliser factory, civil works, water treatment plant and irrigation barrage.

Chairman : N. R. Hota, I.A.S.

Orissa Forest Corpn. Ltd., Lewis Rd., Bhubaneswar 751002.

Functions : The Corporation undertakes proper exploitation of forest resources of the State and markets raw and finished forest products such as timber, props, colliery materials, sleepers, charcoal, Kendu leaves, etc.

Mg. Director : R. C. Mohanty.

Orissa Mining Corpn. Ltd., Bhubaneswar 751001.

Functions : Exploitation of various minerals in the State through iron ore, manganese and chromite mines set up by the Corporation ; assembling and transporting the minerals for export purpose and to meet indigenous requirements.

Chairman : A. L. Nair.

Orissa Small Scale Ind. Corpn. Ltd., Killa Maidan, Cuttack 753001.

Orissa State Financial Corpn., Barabati Stadium, Cuttack 753005.

Functions : To provide credit to small-scale and medium-sized industrial concerns and also hotel and transport industry in the State of Orissa, primarily for the purpose of purchase, renovation or expansion of plant and machinery and other fixed assets.

PONDICHERRY

Pondicherry Industrial Promotion, Development & Investment Corpn. Ltd., Industrial Est., Thattancherry, Pondicherry 605009.

PUNJAB

Punjab Agro-Industries Corpn. Ltd., 166, Sector 19-A, Chandigarh 160017.

Functions : Joint venture of the Punjab Government and the Govt. of India, it aims at promoting farm mechanisation by supply of tractors, agricultural implements and servicing and repair of tractors through its workshops, provision of custom cultivation/combine harvesting services, distribution of steel and fertilisers, grain storage bins and the establishment of Agro-Service Centres for unemployed engineers/ex-servicemen etc.

Chairman : Sat Paul Mittal ; *Mg. Director :* Naranjan Singh, I.A.S.

Punjab Dairy Development Corpn. Ltd., 14-A, Madhya Marg, Sector 7-C, Chandigarh 160017.

Functions : To provide technical inputs to the milk producers for introducing commercialised milk production and also to make available fresh, pure and wholesome milk and milk products to the consumers at reasonable prices.

Chairman : Hari Dilawri ; *Mg. Director :* Gurbhagwant Singh Kahlen.

Punjab Export Corpn. Ltd., Kothi No. 91, Sector 11-A, P.B. 20, Chandigarh 160017.

Functions : To serve as a channel for the outflow of goods from Punjab's medium and small-scale industries to the export markets. It arranges supply of scarce raw materials required for the manufacture of goods.

Chairman : S. L. Kapur ; *Mg. Director :* R. S. Grewal.

Punjab Film & News Corpn., 52, Sector 4-A, Chandigarh 160017.

Punjab Financial Corpn., 72/73, Sector 17-B, Bank Square, Chandigarh 160017.

Functions : It supplies the financial requirements of medium and small-scale industries in the State of Punjab only.

Chairman : Hardev Singh Chhina ; *Mg. Director :* Mrs. Usha Vohra.

Punjab Poultry Corpn. Ltd., 106, Sector 16-A, Chandigarh 160017.

Functions : Manufacture and sale of poultry and cattle feeds at its Feed Processing Centres in Chandigarh, Patiala, Ludhiana, Jullundur and Gurdaspur and sale

of pork/mutton products manufactured at the Pork Plant, Kharar.
Mg. Director : C. L. Bains.

Punjab State Industrial Development Corpn. Ltd., SCO 54, 55 & 56, Sector 17-A, Chandigarh 160017.
Functions : The Corporation is mainly engaged in promoting new, large and medium-scale industries in the State.
Chairman : S. L. Kapur; *Mg. Director :* A. S. Chatha, I.A.S.

Punjab State Small Industries Corpn. Ltd., Batra Bldg., Sector 17, P.B. 11, Chandigarh 160017.
Functions : To aid, finance and promote the interests of small industries in the State: (*i*) Procurement, storage and distribution and import of raw materials; (*ii*) Supply of machinery; (*iii*) Export of the products; (*iv*) Development of Industrial estates; and (*v*) to provide consultancy services to the entrepreneurs.
Mg. Director : Kamal Nain Singh.

RAJASTHAN

Rajasthan Financial Corpn., Surya Nivas, C-18, Bhagwandas Rd., P. B. 63, Jaipur 302001.
Functions : To provide financial assistance to medium and small-scale industrial concerns in the State.
Mg. Director : Brij Raj Bahadur, I.A.S.

Rajasthan Small Industries Corpn. Ltd., 12, Sahdev Marg, 'C' Scheme P.B. 180, Jaipur 302005.
Functions : It procures and distributes raw materials to the small scale industrial units; runs handicrafts emporia at Jaipur, New Delhi, Mount Abu, Bombay and Calcutta; organises exhibitions and fairs abroad for export promotion of handicrafts; runs worsted spinning mills at Churu and Ladnun, a furniture making unit and a design development and research centres for handicrafts at Jaipur and a bidi factory at Tonk.
Mg. Director : M. L. Goyal.

Rajasthan State Agro Industries Corpn. Ltd., Virat Bhawan, Prithvi Raj Rd., 'C' Scheme, Jaipur 302001.
Functions : It provides imported tractors and other farm equipments to farmers and provides jobs to the unemployed engineers at its workshops. It undertakes land levelling work in major irrigation projects.
Chairman : Aminuddin Ahmed Loharu; *Mg. Director :* M. N. Pancholi.

Rajasthan State Hotels Corpn. Ltd., State Hotel Premises, M. I. Rd., Jaipur 302001.
Objects : To meet the growing needs of internal and external tourist traffic and provide facilities at reasonable rates.

Rajasthan State Industrial & Mineral Development Corpn. Ltd., 100, Jawaharlal Nehru Marg, Jaipur 302004.
Functions : Estd. April 1969 to accelerate the industrial and mineral development of Rajasthan. It promotes, establishes, aids and executes industries; undertakes industrial ventures independently or jointly.
Chairman : P. N. Kathju; *Mg. Director :* Vijay Singh, I.A.S.

TAMIL NADU

Banana & Fruit Development Corpn. Ltd., 49/2—B Mawbray's Rd., Alwarpet, Madras 600018.
Functions : It has been set up by the Govts. of Tamil Nadu, Andhra Pradesh, Kerala and Karnataka to promote cultivation and marketing including export of bananas. Govt. of India has become the major shareholder. Govt. of Orissa and Gujarat have become members and Govts. of West Bengal and Union Territory of Goa are expected to join the Corporation during 1975-76.
Managing Director : K. S. Chandrasekaran, I.A.S.

Southern Petrochemical Industries Corpn. Ltd., *Regd. Office :* 99, Armenian Street, Madras 600001. *Principal Office :* 24, Whites Rd., Madras 600014.
Functions : The Corporation was incorporated to implement the "Tuticorin Fertilizer Project", the largest complex of its kind in Asia, with the Government of Tamil Nadu as co-sponsors in the venture.
Chairman : M. A. Chidambaram; *Vice-Chairman & President :* K. R. Srivatsa.

State Industries Promotion Corpn. of Tamil Nadu Ltd., Meco House, 11 A/1, Anna Salai, Madras 600002.
Functions : To promote and finance medium and major industries and to implement a package scheme of incentives including subsidy for feasibility studies, interest free loans equivalent to the sales tax paid, subsidy for industries to be set up in backward taluks of the State, etc.
Chairman : M. G. Raja Ram, I.A.S.; *Mg. Director :* C. Ramachandran, I.A.S.

Tamil Nadu Agro Industries Corpn. Ltd. Ind. Estate, Guindy, Madras 600032.
Functions : To establish, promote and assist industries connected with agriculture. It deals in tractor spare parts, tyres and tubes etc., manufactures and sells agricultural implements and pesticides, and has on hand projects to manufacture maize products and oil products in Tamil Nadu.
Chairman : K. V. Subbiah; *Mg. Director :* V. Ramamurthy, I.A.S.

Tamil Nadu Civil Supplies Corpn. Ltd., S. M. Ammal Rd., Kilpauk, Madras 600010.

Tamil Nadu Dairy Development Corpn. Ltd., 6, Ritherdon Rd., Madras 600007.
Functions : The Corporation is in charge of development of dairying in Tamil Nadu. It is also implementing the World Food Programme Project 'Operation Food' scheme under which Tamil Nadu has been allotted Rs. 88 million by the Indian Dairy Corporation, Vadodara.
Mg. Director : L. M. Menezes.

Tamil Nadu Handicrafts Development Corpn. Ltd., 166-A, Mount Rd., Madras 600002.
Chairman : R. A. Seetharam Das, I.A.S.; *Mg. Director :* A. P. Bhatikar, I.A.S.

Tamil Nadu Handloom Finance & Trdg. Corpn. Ltd., 2, Khader Nawaz Khan Rd., Madras 600006.
Functions : Provides financial assistance to the handloom weavers outside the co-operative field; distributes dyes and chemicals to actual users; distributes yarn to co-operatives; markets and exports handlooms.
Chairman : P. Shankar, I.A.S.; *Mg. Director :* P. Arultharumperumal.

Tamil Nadu Harijan Housing & Development Corpn. Ltd., 12, 1st Main Rd., Gandhinagar, Adyar, Madras 600020.
Construction of 100,000 houses in a phased programme for Harijans.
Chairman : P. K. Nambiar; *Mg. Director :* P. K. Kandaswamy.

Tamil Nadu Industrial Development Corpn. Ltd., 150-A, Anna Salai, Madras 600002.
Functions : To establish and promote large and medium scale industries in the public and joint sectors in Tamil Nadu.
Chairman and Mg. Director : E. C. P. Prabhakar, I.A.S.

Tamil Nadu Industrial Investment Corpn. Ltd., Arul Manai, 26, Whites Rd., Madras 600014.

Tamil Nadu Small Industries Corpn. Ltd., 26, Whites Rd., Madras 600014.
Incorporated with the object of taking over industrial units earlier run departmentally and to undertake production and servicing jobs in these units.
Chairman : Harbans Singh, I.A.S. ; *Mg. Director :* K. Chandrachoodan, I.A.S.

Tamil Nadu Small Industries Development Corpn. Ltd., 'Kannammai Bldg.,' 122, Anna Salai, Madras 600006.
Functions : Assisting the growth of small industries in Tamil Nadu.
Chairman & Mg. Director : H. B. N. Shetty, I.A.S.

Tamil Nadu Sugar Corpn. Ltd., 29 A, Wallace Garden 1st St., Madras 600006.

Tamil Nadu Textile Corpn. Ltd., 85, Anna Salai, Madras 600018.
Functions : Managing and controlling any sick textile mill in Tamil Nadu which may be taken over by the Government and assisting Textile Industry in general.
Chairman & Mg. Director : P. N. Veda Narayanan, I.A.S.

Tamil Nadu Tourism Development Corpn. Ltd., 34, Anna Salai, Madras 600002.
Functions : The Corporation runs tourist bungalows at Ooty, Hogenekkal, Yercaud, Kodaikanal, Madurai, Trichy, Kanyakumari and Tiruchendur and proposes to build new ones in all the district headquarters and also at Mahabalipuram, Courtallam, Chidambaram, Tuticorin and Nagapattinam. It also conducts package tours all over the State by luxury coaches.
Chairman : Av. P. Asaithambi ; *Mg. Director :* K. J. M. Shetty.

Tamil Nadu Warehousing Corpn., 9/10, Moore St., Madras 600001.
Functions : The main functions are to acquire, build and run warehouses in the State.
Mg. Director : B. Ramakrishna Lal.

TRIPURA

Tripura Small Industries Corpn. Ltd., P.O. Agartala 799001.
Functions : To aid, advise, finance and promote the interests of small industries in Tripura. The Corporation also runs ASCU Timber Treatment and Seasoning Plant, one brick kiln and one fruit canning factory.
Mg. Director : C. R. Bhattacharjee.

UTTAR PRADESH

Pradeshiya Industrial & Investment Corpn. of U.P. Ltd., 8, Vivekanand Marg, Lucknow 226001.
Functions : It grants financial assistance for setting up new industries, render technical assistance like feasibility studies, preparation of project reports etc.
Chairman : Satish Chandra, I.C.S.; *Mg. Director :* S.N. Acharya, I.A.S.

U. P. Electronics Corpn. Ltd., 8, Vivekanand Marg, Lucknow 226001.
Functions : Guides and assists entrepreneurs with expertise for selection of electronic components and equipments for manufacture, documentation formalities, financial and technical assistance etc. It is also setting up industries in the private, joint and public sectors.
Mg. Director : S. N. Acharya.

U.P. Financial Corpn., 14/88, Civil Lines, Kanpur 208001.
Functions : The Corporation provides finance to industrial concerns, co-operative societies, public or private limited companies engaged in or proposed to be engaged in any of the following activities :—manufacture of goods ; preservation of goods ; mining ; hotel industry ; transport by road and water, etc.
Chairman : P. K. Kaul, I.A.S. ; *Mg. Director :* S. Ramesh, I.A.S.

U.P. Hill Development Corpn. Ltd., Nainital 263001. (Yatra office : Muni Ki Reti, Tehri Garhwal).
Functions : Development of tourism and industries in the eight hill districts of the State.
Chairman : Bhairab Datt Sanwal ; *Mg. Director :* N. D. Bachkheti.

U. P. Poorvanchal Vikas Nigam Ltd., 33, Civil Lines, Faizabad 224001.

U.P. Small Industries Corpn. Ltd., B-15, Sarvodaya Nagar, Kanpur 208005.
Functions : The Corporation aids, finances and promotes the interests of small industries in the State.
Mg. Director : C. M. Vasudev, I.A.S.

U. P. State Agro Industrial Corpn. Ltd., 22, Vidhan Sabha Marg, Lucknow 226001.
Activities : Assembles tractors, manufactures various types of agricultural implements and quality cattle and poultry feeds and distributes it to cultivators ; its agro-service centres are providing custom and hiring facilities to cultivators all over the State ; its processed foods division is running 6 factories in U.P. It is exporting mango juice and other items to U.S.S.R. and other countries of Middle East and W. Europe.
Chairman : J. D. Shukla, I.C.S.

U. P. States Bridge Corpn. Ltd., 16, Madan Mohan Malviya Marg, Lucknow 226001.

U.P. State Cement Corpn. Ltd., Churk 231206, Mirzapur Dist.
Functions : The Corporation has two cement plants at Churk and Dalla with annual rated capacity of 480,000 tonnes and 400,000 tonnes of cement. It has set up in the joint sector an asbestos sheet manufacturing factory in Lucknow district with 36,000 tonnes per annum capacity. The Corporation is making headway with its Kajarahat—Chunar Cement Project for installation of 800,000 tonnes clinker capacity at Dalla, in addition to the existing plant, and under it, 1·68 million tonnes per annum PBAS cement capacity at Chunar in Mirzapur district.

U. P. State Industrial Development Corpn. Ltd., Bldg. of the Directorate of Industries, 117/420, G. T. Rd., P.B. 413, Kanpur 208002.
Functions : (1) Acquisition and development of land and offering to industrialists on 90 years lease on easy instalments ; (2) Underwriting of share capital of public limited companies ; (3) Working of certain selected mineral deposits within the State ; (4) Establishment of industries in the joint sector. Dead burnt magnesite project has already been established in Almora Dist., and arrangements have been finalised for setting G.L.S. lamp project at Jhansi, printing machinery project at Unnao and steel billets project at Ballia.
Chairman : P. K. Kaul ; *Mg. Director :* Ashok Chandra.

U. P. State Sugar Corpn. Ltd., 25-B, Ashok Marg, Lucknow 226001.
Functions : The Corporation at present manages five sugar factories vested in it under the U.P. Sugar Undertaking (Acquisition) Act 1971.
Chairman and Mg. Director : R. P. Khosla.

U. P. State Textile Corpn. Ltd., 7-B, Sarvodayanagar, Kanpur 208005.

The Corporation manages sick mills in the State.

Chairman : T. N. Sharma ; *Mg. Director :* P. C. Jain, I.A.S.

WEST BENGAL

Calcutta Metropolitan Development Authority, 3A, Auckland Place, Calcutta 700017.

Functions : Established in 1970 for the development of Calcutta.

Chairman : Bholanath Sen.

West Bengal Agro-Industries Corpn. Ltd., 23B, N. Subhas Rd., Calcutta 700001.

Functions : Distribution and hiring of agricultural machinery ; runs agro-service centres ; distribution of fertilizers, seeds, pesticides, etc. ; setting-up of various agro-based industries.

Mg. Director : Dr. K. Sengupta.

West Bengal Dairy & Poultry Development Corpn. Ltd., 16, N. Subhas Rd., Calcutta 700001.

Functions : Development of dairy and poultry farms and distribution of milk, feeds, poultry eggs and meat.

Mg. Director : B. C. Chakravorti.

West Bengal Financial Corpn., 4, Kiron Sankar Roy Rd., (1st Fl.), Calcutta 700001.

Functions : To assist medium and small-scale industrial units including hotels and transport in the State by way of term loans, underwriting of shares, bonds and debentures and guarantee of deferred payments regarding purchase of capital goods including foreign exchange, special concessions are given for setting up industries in backward districts.

Chairman : Bhaskar Mitter ; *Mg. Director :* N. K. S. Jhala.

West Bengal Industrial Development Corpn. Ltd., 23A, N. Subhas Rd., Calcutta 700001.

Functions : The Corporation provides incentives to medium and large scale industries besides offering financial assistance. Joint sector projects under implementation are for the production of : tyres and tubes, cement, alloy steel, nylon, scooters, TV sets, Maleic Anhydride, cigarettes, Tungsten filaments and yarn.

Chairman : S. Dutt-Mazumdar ; *Mg. Director :* S. V. Krishnan, I.A.S.

West Bengal Small Industries Corpn, Ltd., 6A, Raja Subodh Mullick Square (3rd Fl.), Calcutta 700013.

Functions : Promotion of employment through small scale industries by distribution of various raw materials and by creating infra-structural facilities.

Chairman : B. C. Mukherjee ; *Mg. Director :* S. P. De, I.A.S.

West Bengal State Warehousing Corpn., 45, G. Chandra Ave., Calcutta 700016.

Chairman : A. S. Naskar ; *Mg. Director :* B. N. Mandal, I.A.S.

THE WORLD AROUND US

(Corrected Upto April 30, 1975)

Currency Conversion rates are approximate

Cl = Climate ; C = Capital ; Cy = Currency ; A = Area ; P = Population ; H. of S. = Head of State ; P. M. = Prime Minister ; Gov. = Governor ; G. G. = Governor General ; Lt. Gov. = Lieutenant-Governor ; C-in-C = Commander-n-Chief.

Abu Dhabi : Part of United Arab Emirates.

The Afars and the Issas : (French Somaliland) French territory in East Africa.

Afghanistan : Cl : Extremes ; C : Kabul ; Cy : Rs. 18 = 194·3 Afghanis (app.) ; A : 647,497 sq. kms. ; P : 17,480,000 ; H. of S. Pres : Mohammed Daud Khan.

Albania : Cl : Mediterranean ; C : Tirane ; Cy : Rs. 18 = 10·196 leke ; A : 28,748 sq. kms. ; P : 2,135,000 ; H. of S. Pres : Haxhi Lleshi ; Chairman : Mehmet Shehu.

Algeria : Cl : Temperate to extreme ; C : Algiers ; Cy : Rs. 18 = 9·90 dinars ; A : 2,381,741 sq. kms ; P : 14,769,000 ; H. of S. P. M. : Col Houri Boumedienne.

Andorra : Cl : Alpine ; C : Andorra la Vella ; Cy : Rs. 18 = 11·20 franc ; A : 465 sq. kms. ; P : 20,000 ; H. of S. Episcopal Co-Prince : H.E. Dr. Joan Marti Alanis, Bishop of Urgel.

Angola : Portuguese overseas province in West Africa. (To become independent on November 11, 1975.)

Antigua and Barbuda : West Indies associated states.

Argentina : Cl : Sub-tropical to sub-arctic ; C : Buenos Aires, Cy : Rs. 18 = 24·40 new pesos ; A : 2,776,889 sq. kms. ; P: 23,392,000 ; H. of S. Pres : Mrs. Maria Estella de Peron.

Armenian Soviet Socialist Republic (U.S.S.R.) : C : Yerevan ; Cy : Rs. 18 = 1·865 roubles ; A : 29,800 sq. kms. ; P : 2,606,000 ; H. of S. Chairman : R. O. Parsamjan.

Ascension : (Wideawake Island) British Colonial territory in South Atlantic.

Ashmere and Cartier Islands : Australian external territories in the Indian Ocean.

Australia : Cl : Hot and dry ; C : Canberra ; Cy : Rs. 18 = $A 1·751 ; A : 7,686,884 sq. kms. ; P. 12,959,000 ; H. of S. : H. M. Queen Elizabeth II ; G. G. : H.E. Rt. Hon. Sir John Kerr (June 1974) : P. M. : Edward Gough Whitlam.

Austria : Cl : Varies sharply ; C : Vienna ; Cy : Rs. 18 = 50·50 Schilling ; A : 83,850 sq. kms. ; P : 7,456,403 ; H. of S. Pres. : Vacant ; Chancellor : Dr. Bruno Kreisky.

Azerbaizhan Soviet Socialist Republic (U.S.S.R.) : C : Baku ; Cy : Rs. 18 = 1·865 roubles ; A : 86,600 sq. kms. ; P : 5,326,000 ; H. of S. Chairman : S. A. Rustamzade.

Bahamas : Cl : Mild-sub-tropical ; C : Nassau ; Cy : Rs. 18 = B$2·49. A : 13,940 sq. kms ; P : 168,812 ; H. of S. Gov : Sir Milo Butler.

Bahrain : Cl : Temperate to hot ; C : Manamo ; Cy : Rs. 18 = 980·5 fils. A : 598 sq. kms ; P : 225,000. H. of S. Amir : Sheikh Isa Bin Sulman al-Khalifa, K.C.M.G.

Bangladesh : Cl : Temperate to hot ; C : Daddo ; Cy : Rs. 18 = 18·87 takas ; A : 14,571 sq. kms ; P : 75,000,000 ; H. of S. Pres : Sheikh Mujibur Rehman ; P.M. : M. Mansoor Ali.

Barbados : Cl : Rainy and cool ; C : Bridgetown ; Cy : Rs. 18 = EC $ 4·80. A : 430 sq. kms. P : 236,000 ; H. of S. G.G. : Sir Winston Scott ; P.M. : Ercol Walton Barrow.

Belgium : Cl : Temperate ; C : Brussels ; Cy : Rs. 18 = 97·50 francs ; A : 30,513 sq. kms. ; P. : 9,695,379 ; H. of S. : H. M. King Baudouin ; P.M. : Leo Tindemans.

Belize : Formerly British Honduras, a British colonial territory on the Caribbean coast of Central Africa now independent. P.M. : George C. Price.

Bermuda : (Somers Islands) British colonial territory in the Atlantic.

Bhutan : Cl : Cold and wet ; C : Thimpu ; Cy : Rs. 18 = 18·71 rupees ; A : 46,620 sq. kms. ; P : 1,100,000 ; H. of S. : H. M. Druk Gyalpo Jigme Singhye Wangchuk.

Bolivia : Cl : Humid to cold ; C : La Paz ; Cy : Rs. 18 = 50 pesos ; A : 1,098,581 sq. kms. ; P : 5,062,500 ; H. of S. Pres : Col. Hugo Banzer Suarez.

Botswana : Cl : Sub-tropical ; C : Gaborone ; Cy : Rs. 18 = 1·7615 rand ; A : 600,372 sq. kms. ; P : 620,000 ; H. of S. Pres : Dr. Sir Seretse Khama.

Brazil : Cl : Tropical ; C : Brasilia ; Cy : Rs. 18 = 14·655 cruzeiros ; A : 8,511,965 sq. kms. ; P : 93,215,301 ; H. of S. Pres : Gen. Ernesto Geisel.

Brunei : Cl : Tropical ; C : Bandar Seri Begawan ; Cy : Rs. 18 = B$6·344 ; A : 5,765 sq. kms. ; P : 141,500 ; H. of S. The Sultan : H. H. Hassanal Bolkiah Muizaddin Waddaulah.

Bulgaria : Cl : Sharp contrasts between winter and summer ; C : Sofia ; Cy : Rs. 18 = 2·386 leva ; A : 110,911·5 sq. kms. ; P : 8,540,000 ; H. of S. Pres : Todor Zhivkov ; Chairman : Stanko Todorov.

Burma : Cl : Tropical ; C : Rangoon ; Cy : Rs. 18 = 12·035 kyats ; A : 677,958 sq. kms. ; P : 28,874,000 ; H. of S. Chairman U Ne Win ; P.M. : U Sein Win.

Burundi : Cl : Tropical ; C : Bujumbura ; Cy : Rs. 18 = 195·6 francs ; A : 27,834 sq. kms. ; P : 3,615,000 ; H. of S. Pres. & P.M. : Col. Michal Micounbero.

Byelorussian Soviet Socialist Republic (U.S.S.R.) : C : Minsk ; Cy : Rs. 18 = 1·865 roubles ; A : 207,600 sq. kms. ; P. : 9,142,000 ; H. of S. Chairman : I. A. Shamjakin.

Cambodia : See Khmer Republic.

Cameroon, United Republic of: Cl : Hot and humid ; C : Yaoundo ; Cy : Rs. 18 = 575·52 francs CFA ; A : 475,442 sq. kms. ; P : 5,836,000 ; H. of S. Pres. : Ahmadou Ahidjo.

Canada : Cl : Extreme ; C : Ottawa ; Cy : Rs. 18 = C$2·46 ; A : 9,974,185 sq. kms. ; P : 21,788,000 ; H. of S. G. G. : The Rt. Hon. Jules Leger ; P.M. : Pierre Trudeau.

Cape Verde Islands : Portuguese Overseas Province in the Atlantic (To be Independent on July 5, 1975.)

Cayman Islands : British Colonial Territory in the Caribbean.

Central African Republic : Cl : Tropical ; C : Bangui ; Cy : Rs. 18 = 575·52 francs CFA ; A : 622·984 sq. kms. ; P : 1,637,000 ; H. of S. Life Pres : Gen. Jean-Bedel Bokassa ; P.M. : Elisabeth Domitien.

Ceylon : See Sri Lanka.

Ceuta : Spanish Africa.

Chad : Cl : Hot ; C : Fort-Lamy ; Cy : Rs. 18 = 575·52 francs CFA ; A : 1,284,000 sq. kms. ; P : 3,791,000 ; H. of S. Pres : Vacant.

Chile : Cl : Temperate ; C : Santiago ; Cy : Rs. 18 = 58·69 escudos ; A : 741,523 sq. kms. ; P : 8,666,221 ; H. of S. Pres : Gen. Augusto Pinochet Ugarte.

China, People's Republic of : Cl : Sub-tropical and average temperature ; C : Peking ; Cy : Rs. 18 = 5·06 yuan ; A : 9,561,000 sq. kms ; P : 712,000,000 ; H. of S. (nominal) : Marshal Cho Teh.

Christmas Island : Australian External Territory in the Indian Ocean.

Cocos (Keeling) Islands : Australian External Territory in the Indian Ocean.

Colombia : Cl : Tropical with areas of permanent snow ; C : Bogota ; Cy : Rs. 18 = 57·30 pesos ; A : 1,138,914 sq. kms. ; 22,490,500 ; H. of S. Pres : Dr. Alfonso Lopez Michelsen.

Comoro Islands : French Overseas Territory.

Congo, People's Republic of the : (Brazzaville) : Cl : Tropical ; C : Brazzavillo ; Cy : Rs. 18 = 575·52 francs CFA ; A : 342,000 sq. kms ; P : 958,000 ; H. of S. Pres : Commandant Marien Ngouabi.

Cook Islands : New Zealand territory in the South Pacific.

Coral Sea Islands : Australian external territory.

Costa Rica : Cl : Warm and damp ; C : San Jose ; Cy : Rs. 18 = 21·50 colones ; A : 50,900 sq. kms. ; P ; 1,811,290 ; H. of S. Pres : D. Oduber Quiros.

Cuba : Cl : Tropical ; C : Havana ; Cy : Rs. 18 = 2·072 pesos ; A : 110,921 sq. kms ; P : 8,553,395 ; H. of S. Pres : Dr. Osvaldo Dorticos Torrado ; P.M. : Maj (Dr.) Fidel Castro Ruz.

Cyprus : Cl : Mild ; C : Nicosia ; Cy : Rs. 18 = 846·45 mils ; A : 9,251 sq. kms. ; P : 639,000 ; H. of S. Pres : Archbishop Makarios III.

Czechoslovakia : Cl : Continental ; C : Prague ; Cy : Rs. 18 = 14·68 Koruna ; A : 127,876·2 sq. kms. ; P : 14,406,772 ; H. of S. Pres : General Ludvik Svoboda ; P.M. : Dr. Lubomir Strougal.

Dahomey : Cl : Tropical ; C : Porto-Novo ; Cy : Rs. 18 = 575·52 francs CFA ; A : 113·048 sq. kms. ; P : 2,792,000 ; H. of S. Pres. : Maj. Mathieu Kerekou.

Denmark : Cl : Temperate ; C : Copenhagen ; Cy : Rs. 18 = 15·28 kroner ; A : 43,069 sq. kms. ; P : 4,978,106 ; H. of S. : H.M. Queen Mangrethe II ; P.M. : Anker Jorgensen.

Diego Garcia : U.K.—U.S. joint naval communication centre in the Indian Ocean.

Dominica : West Indies associated state.

Dominican Republic : Cl : Sub-tropical ; C : Santo Domingo ; Cy : Rs. 18 = 2·50 pesos ; A : 48,442 sq. kms. ; P : 4,188,000 ; H. of S. Pres : Dr. Joaquin Balaguer.

Dubai : Part of United Arab Emirates.

Ecuador : Cl : Tropical ; C : Quito ; Cy : Rs. 18 = 62·50 sucres ; A : 283·561 sq. kms. ; P : 6,508,000 ; H. of S. Pres : Gen. Guillermo Rodriguez Lara.

Egypt : Cl : Arid ; C : Cairo ; Cy : Rs. 18 = £E 1·022 ; A : 1,001,449 sq. kms. ; P : 34,583,000 ; H. of S. Pres. Col. Anwar Sadat ; P.M. : Mamdouh Salem.

El Salvador, Republic of : Cl : Tropical and temperate ; C : San Salvador ; Cy : Rs. 18 = 6·15 colones ; A : 21,393 sq. kms. ; P : 3,367,147 ; H. of S. Pres : Col. Arturo Armando Molina.

England : Part of the United Kingdom of Great Britain.

Equatorial Guinea : Cl : Hot and humid ; C : Santa Isabel ; Cy : Rs. 18 = 140·50 pesetas ; A : 28,051 sq. kms. ; P : 286,000 ; H. of S. Life Pres : Francisco Macias Nguema.

Estonian Soviet Socialist Republic (U.S.S.R.) : C : Tallinn ; Cy : Rs. 18 = 1.865 roubles ; A : 45,100 sq. kms. ; P : 1,391,000 ; H. of S. Chairman : I. A. Vahe.

Ethiopia : Cl : Temperate ; C : Addis Ababa ; Cy : Rs. 18 = E$ 5·098 ; A : 1,221,900 sq. kms. ; P : 25,248,000 ; H. of S. : Brig.-Gen. Teferi Benti.

Falkland Islands : British colonial territory in the South Atlantic.

Fareo Islands : Dutch possession in the Atlantic Ocean.

Fiji : Cl : Tropical ; C : Suva ; Cy : Rs. 18 = $F 1·9875 ; A : 18,273 sq. kms. ; P : 476,727 ; H. of S. G. G. : Ratu Sir George Cakobau ; P.M. : Ratu Sir Kamisese Kapaiwai Tuimacilau Mara.

Finland : Cl : Varies sharply ; C : Helsinki ; Cy : Rs. 18 = 9·56 markkaa ; A : 337,032 sq. kms. ; P : 4,613,805 ; H. of S. Pres : Dr. Urho Kaleva Kekkonen ; P.M. : Kalevi Sorsa.

France : Cl : Temperate ; C : Paris ; Cy : Rs. 18 = 11·20 francs ; A : 543,998 sq. kms. ; P : 51,485,000 ; H. of S. Pres : Valery G. D'Estaing ; P.M. : Jacques Chirac.

French Guiana : French Overseas territory on the coast of South America.

French Polynesia : French Overseas territories of a group of South Pacific Islands.

Gabon : Cl : Tropical ; C : Libreville ; Cy : Rs. 18 = 557·25 francs CFA ; A : 267,000 sq. kms. ; P : 950,000 ; H. of S. Pres : Omar Bongo.

Gambia : Cl : Tropical ; C : Banjul ; Cy : Rs. 18 = 5·00 dalasi ; A : 11,036 sq. kms. ; P : 378,730 ; H. of S. Pres : Sir Dawda Jawara.

Georgian Soviet Socialist Republic (U.S.S.R.) : C : Tbilis ; Cy : Rs. 18 = 1·865 roubles ; A : 69,700 sq. kms. ; P : 4,789,000 ; H. of S. Chairman : I. B. Abashigza.

German Democratic Republic (East) : Cl : Warm in summer, cold winter ; C : East Berlin ; Cy : Rs. 18 = 4·532 GDR-Marks ; A : 108,178 sq. kms. ; P : 17,042,363; H. of S. Chairman : Willi Stoph.

Germany, Federal Republic of (West) : Cl : Temperate ; C : Bonn ; Cy : Rs. 18 = 6·99 Deutsche Mark ; A : 245,590 sq. kms. ; P : 61,503,000 ; H. of S. Pres : Walter Scheel ; Chancellor : Helmut Schmidt.

Ghana : Cl : Tropical ; C : Accra ; Cy : Rs. 18 = 2·838 cedis ; A : 238,539 sq. kms. ; P : 8,559,313 ; H. of S. Chairman : Col. I. K. Acheampong.

Gibraltar (British Crown Colony) : Cl : Temperate ; Cy : Rs. 18 = G£ 1·00 ; A : 550 hectares ; P : 28,694 ; H. of S. Governor and Commander-in-Chief : Marshal of the R.A.F. Sir John Grandy.

Gilbert and Ellice Islands : British colonial territories in the Central Pacific Ocean.

Great Britain (U.K.) : Cl : Temperate and variable ; C : London ; Cy : Rs. 18 = £1 sterling ; A : 229,901 sq. kms. ; P : 53,821,364 ; H. of S. : Her Majesty Queen Elizabeth II (Elizabeth Alexandra Mary) ; P.M. : The Rt. Hon. Harold Wilson.

Greece : Cl : Mediterranean ; C : Athens ; Cy : Rs. 18 = 73·80 drachmae ; A : 131,944 sq. kms. ; P : 8,768,641 ; H. of S. Pres : Prof. M. Stassinopoulos ; P.M. : K. Karamanlis.

Grenada : West Indies associated state island.

Guadeloupe : French Overseas territory in the east Caribbean.

Guam : U.S. external territory island in the North Pacific.

Guatemala : Cl : Tropical ; C : Guatemala ; Cy : Rs. 18 = 2·46 quetzales ; A : 108,889 sq. kms. ; P : 5,348,000 ; H. of S. Pres : Gen. Kjell E. Laugerud Garcia.

Guernsey (The Channel island of U.K.) : C : St. Peter Port ; Cy : Rs. 18 = £1 sterling ; A : 6,500 hectares ; P : 49,399 ; H. of S. : Lieutenant-Governor and Commander-in-Chief : Vice-Admiral Sir Charles Mills.

Guinea, Republic of : Cl : Hot and moist ; C : Conakry ; Cy : Rs. 18 = 50·34 silys ; A : 245,857 sq. kms. ; P : 4,013,000 ; H. of S. Pres : Sekou Toure ; P.M. : Dr. Louis Lansana Beavogui.

Guinea (Bissau) : Portuguese Overseas province in West Africa on Atlantic coast became independent in September 1974 now known as Republic of Guinea-Bissau.

Guyana : Cl : Moderate ; C : Georgetown ; Cy : Rs. 18 = $G 5·21 ; A : 214,970 sq. kms. ; P : 721,098 ; H. of S. Pres : Arthur Chung ; P.M. : Linden Forbes Sampson Burnham.

Haiti : Cl : Tropical with mitigated heat ; C : Port-au-Prince ; Cy : Rs. 18 = 12·30 gourdes ; A : 28,800 sq. kms. ; P : 4,867,190 ; H. of S. Pres : Jean-Claude Duvalier.

Holland : See the Netherlands.

Honduras, British (Belize) : British colonial territory on the Caribbean coast of Central America. Now independent.

Honduras : Cl : Extreme temp. and heavier rainfall ; C : Tegucigalpa ; Cy : Rs. 18 = 4·92 lempiras ; A : 112,088 sq. kms. ; P : 2,500,000 ; H. of S. Pres : Vacant.

Hong Kong : Britisb colonial territory ; C : Victoria ; Cy : Rs. 18 = HK $ 12·71 ; A : 1,032·12 sq. kms. ; P : 4,077,400 ; H. of S. Gov : Sir Crawford Murray MacLehose.

Hungary : Cl : Continental ; C : Budapest ; Cy : Rs. 18 = 23·93 forints ; A : 93,041·6 sq. kms. ; P : 10,395,000 ; H. of S. Pres : Pal Losonczi ; P.M. : Jeno Fock.

Iceland : Cl : Cold ; C : Reykjavik ; Cy : Rs. 18 = 236·60 kronur ; A : 102,864 sq. kms. ; P : 207,174 ; H. of S. Pres : Dr. Kristjan Eldjarn. P.M. : Geir Hallgrimsson.

Indonesia : Cl : Tropical ; C : Jakarta ; Cy : Rs. 18 = 920.04 rupiahs ; A : 2,027,087 sq. kms. ; P : 118,460,000 ; H. of S. Pres : Gen. T. N. I. Suharto.

Iran : Cl : Great extremes ; C : Teheran ; Cy : Rs. 18 = 167·50 rials ; A : 1,648,000 sq. kms. ; P : 30,284,000 ; H. of S. : H. I. M. Mohammad Reza Pahlavi Aryamehr, Shahanshah of Iran. P. M. : Amir-Abbas Hoveida.

Iraq : Cl : Extreme ; C : Baghdad ; Cy : Rs. 18 = 728·29 fils ; A : 438,446 sq. kms. ; P : 9,750,000 ; H. of S. Pres. & P.M. : Field-Marshal Ahmed Hassain Al Bakr.

Ireland, Northern : See Northern Ireland.

Ireland, Republic of : Cl : Mild and equable ; C : Dublin ; Cy : Rs. 18 ; = I£1·00 ; A : 7,028,623 hectares ; P : 2,971,230 ; H. of S. Pres : Cearbhall O. Dalaigh ; P.M. : Liam Cosgrave.

Isle of Man (U.K.) : C : Douglas ; Cy : Rs. 18 = £1 sterling ; A : 588 sq. kms. ; P : 56,289 ; H. of S. Lt. Gov. : Sir Peter Hyla Gawne Stallard.

Israel : Cl : Mediterranean with hot dry summers ; C : Jerusalem ; Cy : Rs. 18 = I£ 10·40 ; A : 20,764 sq. kms. ; P : 3,199,200 ; H. of S. Pres : Ephraim Katchalsky ; P.M. : Mr. Yitzhak Rabin.

Italy : Cl : Mediterranean ; Cl : Rome ; Cy : Rs. 18 = 1,419·50 lire ; A : 301,225 sq. kms. ; P : 54,066,973 ; H. of S. Pres : Giovanni Spagnolli ; P.M. : Aldo Moro.

Ivory Coast : Cl : Hot and wet ; C : Abidjan ; Cy : Rs. 18 = 557·25 francs CFA. ; A : 322,463 sq. kms. ; P : 4,416,000 ; H. of S. Pres : Felix Houphouet-Boigny.

Jamaica : Cl : Tropical at sea level, temperate in mountain areas ; C : Kingston ; Cy : Rs. 18 = J$ 2·552 ; A : 10,989 sq. kms. ; P : 1,861,300 ; H. of S. G.G. : Sir Herbert Duffus (acting), P.M. : Michael Manley.

Japan : Cl : Temperate ; C : Tokyo; Cy : Rs. 18 = 656·50 yen ; A : 369,881 sq. kms. ; P : 105,006,000; H. of S. : His Imperial Majesty Hirohito, P.M. : Takeo Miki.

Jersey (The Channel island of U.K.) : C : St. Helier ; Cy : Rs. 18 = £1 sterling ; A : 11,621 hectares ; P : 72,629 ; H. of S. : Lieutenant-Governor and C.-in-C. : H.E. Air Chief Marshall Sir John Davis.

Jordan: Cl : Hot and dry ; C : Amman ; Cy : Rs. 18 = 803 fils ; A : 94,500 sq. kms. : P : 2,418,000 ; H. of S. : King Hussein Ibn Talal, P.M. : Zaid Rifai.

Kazakh Soviet Socialist Republic (U.S.S.R.) : C : Alma Ata ; Cy : Rs. 18 = 1·865 roubles ; A : 2,717,300 sq. kms. ; P : 13,470,000 ; H. of S. Chairman : S. E. Esenov.

Kenya : Cl : Humid ; C : Nairobi ; Cy : Rs. 181 = 17.36 Ks. (Kenya Shilling); A : 582,646 sq. kms. ; P : 11,694,000 ; H. of S. Pres : Mzee Jomo Kenyatta.

Khmer Republic (Cambodia) : Cl : Tropical ; C : Phnom-Penh ; Cy : Rs. 18 = 404·00 riels ; A : 181,035 sq. kms. ; P : 6,944,000 ; H. of S. : Prince Norodom Sihanouk.

Kirghiz Soviet Socialist Republic (U.S.S.R.) : C : Frunze ; Cy : Rs. 18 = 1·865 roubles ; A : 198,500 sq. kms.; P : 3,074,000 ; H. of S. Chairman : B. Djamgert Chinov.

Korea Democratic People's Republic of (North) : Cl : Continental ; C : Pyongyang ; Cy : Rs. 18 = 2·447 won ; A : 120,538 sq. kms. ; P : 14,680,000 ; H. of S. Pres : Kim Il Sung, P.M. : Kim Il.

Korea Republic of (South) : Cl : Cold, dry winters with an average temperature ; C : Seoul ; Cy : Rs. 18 = 950·45 won ; A : 98,477 sq. kms. ; P : 31,469,132 ; H. of S. Pres : Gen. Park Chung Hee ; P.M. : Kim Chong Pil.

Kuwait : Cl : Desert with a hot and humid ; C : Kuwait ; Cy : Rs. 18 = 728·29 fils ; A : 16,000 sq. kms. ; P : 914,000 ; H. of S. Amir of Kuwait : His Highness Shaikh Sabah As-Salim As-Sabah, P.M. : Shaikh Jaber Al-Ahmad Al-Jaber.

Laos : Cl : Tropical ; C : Vientiane ; Cy : Rs. 18 = 1,434 kips ; A : 236,800 sq. kms. ; P : 3,106,000 ; H. of S. Pres : H.H. Prince Souphanouvong ; P.M. : H. H. Prince Souvanna Phouma.

Latvian Soviet Socialist Republic (U.S.S.R.) : C : Riga ; Cy : Rs. 18 = 1·865 roubles ; A : 63,700 sq. kms. ; P : 2,419,000 ; H. of S. Chairman : A. K. Malmaister.

Lebanon : Cl : Varies widely lowland hot and humid hills winter snowfall ; C : Beirut ; Cy : Rs. 18 = £L6·70; A : 1,040,000 hectares ; P : 2,600,000 ; H. of S. Pres : Suliman Franjiy ; P.M. : Rashid Solh.

Lesotho : Cl: Average rainfall ; C : Maseru ; C : Rs. 18 = 1·744 rand ; A : 30,344 sq. kms. ; P : 969,634 ; H. of S. : His Majesty King Moshoeshoe II, P.M. : Chief J. Leabua Jonathan.

Liberia : Cl : Tropical ; C : Monrovia ; Cy : Rs. 18 = L$ 2·46 ; A : 111,370 sq. kms. ; P : 1,571,477 ; H. of S. Pres : William R. Tolbert, Jnr.

Libya : Cl : Dry and desert ; C : The joint capitals are Benghazi and Tripoli (alternating every two years) ; Cy : Rs. 18 = 728·29 dirhams ; A : 1,759,500 sq. kms. ; P : 2,010,000 ; H. of S. Chairman : Col Muammar Al Gaddafi, P.M. : Maj. Abdul Salam Jalloud.

Liechtenstein : Cl : Mild ; C : Vaduz ; Cy : Rs. 18 = 8·00 Franken ; A : 16,000·8 hectares ; P : 21,530 ; H. of S. : Prince Franz Josef II ; Chief of Government : Walter Kieber.

Lithuanian Soviet Socialist Republic (U.S.S.R.) : C : Vilnius ; Cy : Rs. 18 = 1·865 roubles ; A : 65,200 sq. kms. ; P : 3,202,000 ; H. of S. Chairman : A. S. Barkauskas.

Luxembourg : Cl : Temperate ; C : Luxembourg ; Cy : Rs. 18 = 98·175 francs ; A : 2,586 sq. kms. ; P : 345,000 ; H. of S. : H.R.H. Prince Jean ; P.M. : Gaston Thorn.

Macao : Portuguese overseas province near Hong Kong.

Madagascar (Malagasy Republic) : Cl : Tropical ; C : Tananarive ; Cy : Rs. 18 = 557·25 francs MG ; A : 587,041 sq. kms. ; P : 7,655,134 ; H. of S. : Head of Govt. : Vacant.

Malagasy : See Madagascar.

Malawi : Cl : Tropical ; C : Zomba, but a new capital is being built at Lilongwe ; Cy : Rs. 18 = 2·009 kwacha ; A : 118,485 sq. kms. ; P : 4,666,000 ; H. of S. Life Pres : Ngwazi Dr. Hastings Kamuzu Banda.

Malaysia : Cl : Variation ; C : Kuala Lumpur ; Cy : Rs. 18 = M$ 6·168 ; A : 384,434 sq. kms. ; P : 10,674,000 ; H. of S. : His Majesty Sultan Abdul Halim Mulazzam Shah ibni Al-Marhum Sultan Badlishah ; P.M. : Tun Haji Abdul Razak bin Hussein.

Maldives : Cl : Tropical ; C : Malé ; Cy : Rs. 18 = 14·286 rupees ; A : 51,800 sq. kms. ; P : 118,818 ; H. of S. Pres : Amir Ibrahim Nasir ; P.M. : Vacant.

Mali : Cl : Hot and dry ; C : Bamako ; Cy : Rs. 18 = 1,114·50 Mali francs ; A : 1,240,000 sq. kms. ; P : 5,257,000 ; H. of S. Pres : Col. Moussa Traore.

Malta : Cl : Warm ; C : Valletta ; Cy : Rs. 18 = 91·85 Mcltese cents ; A : 314 sq. kms. ; P : 322,070 ; H. of S. Pres. : Sir Anthony Mamo ; P.M. : Dominic Mintoff.

Martinique : French Overseas territory island in the East Caribbean.

Mauritania : Cl : Hot and dry ; C : Nouakchott ; Cy : Rs. 18 = 557·25 francs CFA ; A : 1,030,700 sq. kms. ; P : 1,180,000 ; H. of S. Pres : Moktar Ould Daddah.

Mauritius : Cl : Sub-tropical ; C : Port Louis ; Cy : Rs. 18 = 13·33 rupees ; A : 1,865 sq. kms. ; P : 830,606 ; H. of S. G.G. : Sir Abdul Rahman Mohammed Osman, P.M. : The Rt. Hon. Sir Seewoosagur Ramgoolam.

Melilla : Spanish African territory.

Mexico : Cl : Varies with altitude ; C : Mexico City ; Cy : Rs. 18 = 30·85 pesos ; A : 1,972,547 sq. kms. ; P : 50,829,474 ; H. of S. Pres : Luis Echeverria Alvarez.

Moldavian Soviet Socialist Republic (U.S.S.R.) : C : Kishinev ; Cy : Rs. 18 = 1·865 roubles ; A : 33,700 sq. kms. ; P : 3,670,000 ; H. of S. Chairman : A. M. Lazarev.

Monaco : Cl : Fine and warm ; C : Monte Carlo ; Cy : Rs. 18 = 11·20 francs ; A : 181 hectares ; P: 23,152 ; H. of S. : H.S.H. Prince Rainier III ; Chief of Cabinet : Charles Ballerio.

Mongolia : Cl : Dry and extreme ; C. : Ulan Bator ; Cy : Rs. 18 = 8·157 togrog ; A : 1,565,000 sq. kms. ; P : 1,301,600 ; H. of S. : Chairman of the Presidum of the People's Great Hural (P.M.) : Jambyn Batmounkh ; Pres : Marshal Y. Tsedenbal.

Montserrat : British colonial territory island near West Indies.

Morocco : Cl : Warm and sunny ; C : Rabat ; Cy : Rs. 18 = 10·08 dirhams ; A : 446,550 sq. kms. ; P : 15,379,259 ; H. of S. : H. M. King Hassan II, P.M. : Ahmed Osman.

Mozambique : Portuguese East African territory.

Namibia : See South West Africa.

Nauru : Cl : Warm and pleasant ; C : Nauru ; Cy : Rs. 18 = $ AI·765 (Australian dollar) ; A : 20·72 sq. kms. ; P : 6,768 ; H. of S. Pres : Hammer DeRoburt.

Nepal : Cl : Varies sharply with altitude ; C: Kathmandu ; Cy : Rs. 18 = 25·98 Nepalese rupee ; A : 141,577 sq. kms. ; P : 11,289,968 ; H. of S. : H.M. King Birendra Bir Bikram Shah Deva, P.M. : Nagendra Prasad Rijal.

The Netherlands : Cl : Temperate ; C : The Hague ; Cy : Rs. 18 = 7·19 gulden ; A : 33·716 sq. kms. ; P : 13,269,563 ; H. of S. : H.M. Queen Juliana Louise Emma Mario Wilhelmina ; P.M. : Joop den Uyl.

Netherlands Antilles (Two groups of islands in the Caribbean under the Netherlands): Cl : Tropical ; C : Willemstad in Curacao Island ; Cy : Rs. 18 = 4·403 N.A. Florin ; A : 993 sq. kms. ; P : 228,246 ; H. of S. Gov : B. M. Leito ; P.M. : R. J. Isa.

New Caledonia : French Overseas territory in the South Pacific.

New Hebrides (An Anglo-French Condominium of 72 small Islands) : C : Vila ; Cy : Rs. 18 = $ Australian 1·765 ; A : 14,760 sq. kms. ; P : 77,988 ; H. of S. : British High Commissioner Sir Michael David Irving Gass.

New Zealand : Cl : Moderate ; C : Wellington ; Cy : Rs. 18 = $NZ 1·868; A : 268,676 sq. kms. ; P : 2,961,869 ; H. of S. G.G. and Commander-in-Chief : Sir Edward Denis Blundell, P.M. : Rt. Hon. Wallace (Bill) E. Rowling.

Nicaragua : Cl : Tropical ; C : Managua ; Cy : Rs. 18 = 17·30 cordobas ; A : 130,000 sq. kms. ; P : 1,955,440 ; H. to S. Pres : Gen. A. Somoza Debayle, Jr.

Niger : Cl : Hot and dry ; C : Niamcy ; Cy : Rs. 18 = 557·25 francs CFA ; A : 1,267,000 sq. kms. ; P : 4,243,000 ; H. of S. Pres : Lt. Col. Seyni Kountche.

Nigeria : Cl : Tropical ; C : Lagos ; Cy : Rs. 18 = 1·620 naira ; A : 923,773 sq. kms. ; P : 69,524,000 ; H. of S. Chairman : Gen. Yakubu Gowon.

Niue : New Zealand's island territory.

Norfolk Island : Austrian external territory in the Pacific.

Northern Ireland (U.K.) : Cl : Mild and temperate ; C : Belfast ; Cy : Rs. 18 = £1 sterling ; A : 14,121 sq. kms. ; P : 1,527,600 ; H. of S. Gov. : H.E. Lord Grey of Naunton.

Norway : Cl : Temperate ; C : Oslo ; Cy : Rs. 18 = 14·60 kroner ; A : 323,886 sq. kms. ; P : 3,917,773 ; H. of S. : King Olav V ; P.M. : Trygve Bratteli.

Oman: Cl : Exceptionally hot ; C : Muscat ; Cy : Rs. 18 = 855 baiza ; A : 336,700 sq. kms. ; P : 678,000 ; H. of S. P.M. : Sultan Qabus Bin Said.

Pakistan : Cl : Hot and dry ; C : Islamabad ; Cy : Rs. 18 = 23·95 rupees ; A : 804,214 sq. kms. ; P : 65,890,000 ; H. of S. Pres : Zulfikar Ali Bhutto.

Panama, Republic of : Cl : Tropical ; C : Panama City; Cy : Rs. 18 = 2·46 balboas ; A : 75,650 sq. kms. ; P : 1,478,000 ; H. of S. Pres : Ing. Demetrio Basilio Lakas Bahas.

Papua and New Guinea : Former Australian external territories.

Paraguay : Cl : Sub-tropical ; C : Asuncion ; Cy : Rs. 18 = 304 guaranies ; A : 406,752 sq. kms. ; P : 2,395,614 ; H. of S. Pres : Gen. Alfredo Stroessner.

Peru : Cl : Varies with altitude ; C : Lima ; Cy : Rs. 18 = 95·90 soles ; A : 1,285,215·6 sq. kms. ; P : 14,100,000 ; H. of S. Pres : Gen. Juan Velasco Alvarado. P.M. : Gen. F. Morales Bermudez.

The Philippines : Cl : Maritime and tropical ; C : Quezon (Official) Manila (Administrative) ; Cy : Rs. 18 = 16·81 pesos ; A : 299,404 sq. kms. ; P : 39,769,000 ; H. of S. Pres : Ferdinand Edralin Marcos.

Pitcairn Islands : British colonial territory near New Zealand.

Poland : Cl : Temperate and continental ; C : Warsaw Cy : Rs. 18 = 8·216 zlotys ; A : 312,677 sq. kms. ; P. : 33,202,000 ; H. of S. Pres : Henryk Jablonski.

Portugal : Cl : Mild and temperate ; C : Lisbon ; Cy : Rs. 18 = 62·00 escodos ; A : 92,082 sq. kms. ; P : 8,668,267 ; H. of S. Pres : Francisco Da Costa Gomes.

Portuguese Timor : Portuguese overseas province in the East Indies.

Puerto Rico : Cl : Maritime-tropical ; C : San Juan ; Cy : Rs. 18 = U.S. $ 2·46 ; A : 8,865 sq. kms. ; P : 2,794,000 ; H. of S. Gov. : Rafael Hernandez-Colon.

Qatar : Cl : Exceptionally hot ; C : Doha ; Cy : Rs. 18 = 9·77 Qatar/Dubai riyals ; A : 22,014 sq. kms. ; P : 130,000 ; H. of S. Amir and P.M. : Sheikh Khalifa Bin Hamad Al-Thani.

Reunion : French overseas territory island in the Indian Ocean.

Rhodesia : Cl : Tropical ; C : Salisbury ; Cy : Rs. 18 = R$ 1·457 ; A : 380,124 sq. kms. ; P : 5,690,000 ; H. of S. Pres : Clifford Walter Dupont ; P.M. : Ian Douglas Smith.

Romania: Cl : Hot summers and cold winters ; C :Bucharest ; Cy : Rs. 18 = 12·23 lei ; A : 237,500 sq. kms. ; P : 20,469,658 ; H. of S. Pres : Nicolae Ceausescu ; P.M. : Manea Manescu.

Ross Dependency : New Zealand's overseas territory in the Antartica.

Rwanda : Cl : Tropical ; C : Kigali ; Cy : Rs. 18 = 203·92 Rwanda francs ; A : 26,338 sq. kms. ; P : 3,724,000 ; H. of S. Pres : Maj-Gen. Juvenal Habiyarimana.

Saint Pierre of Miquelon : French overseas territory island off south coast of Newfoundland.

Samoa, American : U.S. external territory of an island group in the southern Central Pacific.

San Marino : C : San Marino ; Cy : Rs. 18 = 1,419·50 lire ; A : 61 sq. kms. ; P : 19,000 ; H. of S. Captains-Regent : Francesco Francini Primo Bugli.

Sao Tome & Principe : Portuguese overseas province islands in the Gulf of Guinea, West Africa. (To be independent in July 12, 1975).

Saudi Arabia : Cl : Desert ; C : Jeddah ; Cy : Rs. 18 = 9·13 Saudi riyals ; A : 2,149,690 sq. kms. ; P : 8,199,000 ; H. of S. : H.M. King Khaled Ibn Abdul Aziz Al Sa'ud.

Scotland : A kingdom now united with United Kingdom and situated in the northern part of the British Isles.

Senegal : Cl : Tropical ; C : Dakar ; Cy : Rs. 18 = 557·25 francs CFA ; A : 196,192 sq. kms. ; P : 3,822,000 ; H. of S. Pres : Leopold Sedar Senghor ; P.M. : Abdou Diouf.

Seychelles : British Crown Colony in the Indian Ocean.

Sierra Leone : Cl : Hot and humid ; C : Freetown ; Cy : Rs. 18 = 2·00 leone ; A : 71,740 sq. kms. ; P : 2,600,000 ; H. of S. Pres : Dr. Siaka Probyn Stevens.

Singapore : Cl : Equatorial ; C : Singapore City ; Cy : Rs. 18 = S$ 6·168 ; A : 584·3 sq. kms. ; P : 2,147,000 ; H. of S. Pres : Dr. Benjamin Henry Sheares ; P.M. : Lee Kuan Yew.

Solomon Islands : British protectorate in the South Pacific.

Somalia : Cl : Dry and hot ; C : Mogadishu ; Cy : Rs. 18 = 16·496 Somali shillings ; A : 637,657 sq. kms. ; P : 2,864,000 ; H. of S. Pres : Maj.-Gen. Mohammad Siyad Barreh.

South Africa : Cl : Warm and sunny ; C : Pretoria ; Cy : Rs. 18 = 1·744 rand ; A : 1,221,042 sq. kms. ; P : 21,448,0000 ; H. of S. Pres : Rt. Hon. Dr. N. Diederichs ; P.M. : Rt. Hon. Balthazar J. Vorster.

South West Africa, (Namibia) : C : Swakopmund; Cy : Rs. 18 = 1,744 rand ; A : 823,142 sq. kms. ; P : 746,328 ; H. of S. Admr. : B. J. Van Der Walt.

Spain : Cl : Temperate ; C : Madrid ; Cy : Rs. 18 = 144·25 pesetas ; A : 504,750 sq. kms. ; P : 34,320,000 ; H. of S. Pres : Generalisimo Francisco Franco Bahamonde ; P.M. : Carlos Arias Navarro.

Spanish Sahara : Spanish colony on the North West African coast.

Sri Lanka : Cl : Tropical ; C : Colombo ; Cy : Rs. 18 = 15·568 rupees ; A : 65,610 sq. kms. ; P : 12,711,143 ; H. of S. Pres : William Gopallawa ; P.M. : Mrs. Sirimavo Ratwatee Dias Bandaranaike.

St. Christopher-Nevis-Anguilla : West Indies associated states.

St. Helena : British colonial territory in the South Atlantic.

St. Lucia : West Indies associated state.

St. Vincent : West Indies associated state.

The Sudan : Cl : Desert and rainy equatorial ; C : Khartoum ; Cy : Rs. 18 = 812·00 milliemes ; A : 2,505,813 sq. kms. ; P : 16,489,000 ; H. of S. Pres : Maj.-Gen. Jaafar Mohammed al Nemery.

Surinam : Formerly Dutch Guiana lies on the northeast of the South American Continent.

Swaziland : Cl : Varied ; C : Mbabane ; Cy : Rs. 18 = 1·744 rand ; A : 17,363 sq. kms. ; P : 421,000 ; H. of S. : H.M. Sobhuza II, P.M. : Prince Makhosini Jameson Dlamini.

Sweden : Cl : Cold and mild ; C : Stockholm ; Cy : Rs. 18 = 11·10 kronor ; A : 449,964 sq. kms. ; P : 8,127,396 ; H. of S. : King Carl Gustaf XVI ; P.M. : Olof Palme.

Switzerland : Cl : Temperate ; C : Berne ; Cy : Rs. 18 = 8·00 francs ; A : 41,287·9 sq. kms. ; P : 6,311,000 ; H. of S. Pres : M. Pierre Graber.

Syria : Cl : Hot and semi-desert ; C : Damascus ; Cy : Rs. 18 = £S 9·501 ; A : 185,180 sq. kms. ; P : 6,661,000 ; H. of S. Pres : Lieut.-Gen. Hafiz Al-Assad ; P.M. : Mahmoud Al-Ayoubi.

Tadzhik Soviet Socialist Republic (U.S.S.R.) : C : Dushanbe ; Cy : Rs. 18 = 1·865 roubles ; A : 143,100 sq. kms. ; P : 3,096,000 ; H. of S. Chairman : M. Mirshakarov.

Taiwan (Republic of China) : Cl : Average ; C: Taipei ; Cy : Rs. 18 = NT$ 94·16 ; A : 35,962 sq. kms. ; P : 15,249,000 ; H. of S. Pres : Yen Chia-Kan ; P.M. : Gen. Chiang Ching-Kuo.

Tanzania : Cl : Varies with altitude ; C : Dar es Salaam ; Cy : Rs. 18 = 17·41 Tanzanian shillings ; A : 939,706 sq. kms. ; P : 11,763,150 ; H. of S. Pres : Nwalimu Julius K. Nyerere.

Thailand : Cl : Tropical and humid ; C : Bangkok ; Cy : Rs. 18 = 51·90 bahts ; A : 514,000 sq. kms. ; P : 36,820,000 ; H. of S. : King Bhumiboi Adulyadej ; P.M. : Kukrit Pramoj.

Togo : Cl : Hot and humid ; C : Lome ; Cy : Rs. 18 = 557·25 francs CFA ; A : 56,000 sq. kms. ; P : 1,955,916 ; H. of S. Pres : Maj.-Gen. Etienne Eyadema.

Tokelau Islands : New Zealand's dependent territory in the Pacific.

Tonga (150 islands in the South-west Pacific) : Cl : Mild ; C : Nuku'alofa on Tongatapu Island ; Cy : Rs. 18 = $T 1·868 ; A : 699 sq. kms. ; P : 113,000 ; H. of S. : H.M. King Taufa'ahau Tupou IV, P.M. : H.R.H. Prince Fatafehi Tu'ipelehake.

Trinidad & Tobago (Caribbean islands) : Cl : Tropical and dry ; C : Port of Spain ; Cy : Rs. 18 = TT$ 4·80 A : Trinidad 4,828 sq. kms. ; Tobago 290 sq. kms. ; P : 1,026,750 ; H. of S. : H.M. Queen Elizabeth II, G.G. : Sir Ellis Emmanuel Innocent Clarke.

Tristan da Cunha : British colonial territory island in the South Atlantic.

Tunisia : Cl : Temperate ; C : Tunis ; Cy : Rs. 18 = 1·023 dinars ; A : 164,150 sq. kms. ; P : 5,179,000 ; H. of S. Pres : Habib Bourguiba, P.M. : Hedi Nouira.

Turkey : Cl : Great extremes ; C : Ankara ; Cy : Rs. 18 = 34·08 liras ; A : 779,452 sq. kms. ; P : 35,666,549 ; H. of S. Pres : Admiral Fahri Koruturk ; P.M. : Suleyman Demirel.

Turkmen Soviet Socialist Republic (U.S.S.R.) : C : Ashkhabad ; Cy : Rs. 18 = 1·865 roubles ; A : 488,100 sq. kms. ; P : 2,293,000 ; H. of S. Chairman : P. Azimov.

Turks & Caicos Islands : British colonial territories in the Caribbean Sea.

Uganda : Cl : Tropical ; C : Kampala ; Cy : Rs. 18 = 17·419 Ugandan shillings ; A : 236,860 sq. kms. ; P : 9,548,847 ; H. of S. Pres : General Idi Amin Dada.

Ukrainian Soviet Socialist Republic (U.S.S.R.) : C : Kiev ; Cy : Rs. 18 = 1·865 roubles ; A : 603,700 sq. kms. ; P : 47,878,000 ; H. of S. Chairman : M. V. Beliy.

Union of Soviet Socialist Republic : Cl : Continental and extreme variations ; C : Moscow ; Cy : Rs. 18 = 1·865 roubles ; A : 22,402,200 sq. kms. ; P : 246,259,000 ; H. of S. Pres : Nikolai V. Podgorny ; Chairman : Alexei N. Kosygin.

United Arab Emirates : Cl : Exceptionally hot and humid ; C : Abu Dhabi ; Cy : Rs. 18 = 987 Bahrain fils = 9·77 Q/D rials. ; A : 82,880 sq. kms. ; P : 210,000 ; H. of S. Pres : Sheikh Zaid Bin Sultan Al-Nihyan ; P.M. : Sheikh Maktum Bin Rashid Al-Maktum.

United Kingdom : See Great Britain.

United States of America : Cl : Continental and temperate ; C : Washington ; Cy : Rs. 7·48 = $1 ; A : 9,363,353 sq. kms. ; P. 203,235,298 ; H. of S. Pres : Gerald R. Ford.

Upper Volta : Cl : Hot and dry ; C : Ouagadougou ; Cy : Rs. 18 = 557·25 francs CFA ; A : 274,122 sq. kms. ; P : 5,426,000 ; H. of S. P. M. : General Sangoule Lamizana.

Uruguay : Cl : Temperate ; C : Montevideo ; Cy : Rs. 18 = 2,090 pesos ; A : 177,508 sq. kms. ; P : 2,921,000 ; H. of S. Pres. & Chairman : Juan Maria Bordaberry Arocena.

Uzbek Soviet Socialist Republic (U.S.S.R.) : C : Tashkent ; Cy : Rs. 18 = 1·865 roubles ; A : 447,400 sq. kms. ; P : 12,526,000 ; H. of S. Chairman : B. Kh. Sirajdinov.

Vatican City State : C : Vatican City ; Cy : Rs. 18 = 1,419 = 50 lire ; A : 44 hectares ; P : 3,000 (estd) ; H. of S. : His Holiness Pope Paul VI, Giovanni Battista Montini, the 26th Roman Pontiff.

Venezuela : Cl : Varies with altitude ; C : Caracas ; Cy : Rs. 18 = 10·50 bolivars ; A : 912,050 sq. kms. ; P : 10,721,522 ; H. of S. Pres : Carlos Andres Perez.

Viet-Nam, Democratic Republic of (North) : Cl : Hot and wet ; C : Hanoi ; Cy : Rs. 18 = 6·044 dong ; A : 158,750 sq. kms. ; P : 22,038,000 ; H. of S. Pres : Ton Duc Thang ; P.M. : Pham Van Dong.

Viet-Nam, Republic of (South): Cl : Warm and humid ; C : Saigon ; Cy : Rs. 18 = 1,083·81 piastres ; A : 173,809 sq. kms. ; P : 18,809,000 ; H. of S. Pres : Vacant ; P.M. : Vacant.

Virgin Islands, British : British colonial territory of 40 islands near West Indies.

Virgin Islands, U.S. : U.S. external territory of three islands in the Caribbean.

Wales : A principality in Western Britain.

Wallis & Futuna Islands : French overseas territory in the South Pacific.

West Indies : Groups of islands in the Atlantic Ocean belonging to Great Britain, France and the Netherlands.

Western Samoa : C : Apia ; Cy : Rs. 18 = 1·479 tala ; A : 2,841 sq. kms. ; P : 131,552 ; H. of S. : Fautua of Maliena — H. H. Malietoa Tanumafili II P.M. : Tupua Tamasese Lealofi IV.

Yemen Arab Republic : Cl : Semi-desert with high humidity ; C : Sanaa ; Cy : Rs. 18 = 11·18 Yemeni riyals ; A : 195,000 sq. kms. ; P : 6,062,000 ; H. of S. Pres : Qadhi Abdul Rahman Al-Iryani ; P.M. : Abdel Aziz Abdel Ghani.

Yemen, People's Democratic Republic of : Cl : Hot and dry ; C : Madinat ash-Sha'b ; Cy : Rs. 18 = 835·69 fils ; A : 287,684 sq. kms. ; P : 1,475,000 ; H. of S. Pres : Salem Rubai Ali, P.M. : Ali Nasir Muhammad Hasani.

Yugoslavia : Cl : Continental ; C : Belgrade ; Cy : Rs. 18 = 41·00 new dinars ; A : 255,504 sq. kms. ; P : 20,738,000 ; H. of S. Pres : Josip Broz Tito.

Zaire : Cl : Tropical ; C : Kinshasa ; Cy : Rs. 18 = 1·24 zaires ; A : 2,344,885 sq. kms. ; P : 21,637,876 ; H. of S. Pres : General Sese Seko Mobutu.

Zambia : Cl : Tropical ; C : Lusaka ; Cy : Rs. 18 = 1·598 kwacha ; A : 753,618 sq. kms. ; P : 4,515,000 ; H. of S. Pres : Dr. Keneth David Kaundo ; P.M. : Mainza Chona.

HISTORIC DATES 1900-1974

(Whilst attempts have been made to compile all historic dates from various records, the Editor regrets any omissions. The reader is requested to draw our attention to any missing dates.)

1900

March 5 — Indian Plague Commission submits report on Mr. Haffkine's innoculation system. **April 15** — Plague riots break out in Kanpur segregation camp. 5 constables die, troops step in and kill 10 people. Plague regulation gets modified. **December 9** — Swami Vivekananda disembarks in Bombay and entrains for Calcutta. **27–29** — Sixteenth annual session of Indian National Congress meets at Lahore. N. G. Chandavarkar presides.

1901

January 16 — Mahadeva Govinda Ranade passes away in Bombay. He was an eminent leader of Indian National Congress. **March** — Gen. Sir A. Palmer becomes Commander-in-Chief of India. **November** — M. K. Gandhi leaves Natal (South Africa) for India. **December 19** — M. K. Gandhi arrives in Bombay. **20** — Gopal Krishna Gokhale becomes additional member of Council of Governor-General of India. **22** — Rabindranath Tagore inaugurates his *Brahmacharya Ashram* (school) at Shantiniketan. **26–28** — Seventeenth session of Indian National Congress meets at Calcutta. Dinshaw E. Wacha presides.

1902

March 26 — Gopal Krishna Gokhale delivers his first budget speech in Imperial Legislative Council. **April 8** — Outlaws ambush and kill eight British soldiers. **July 12** — Swami Vivekananda passes away at age of 39. **August 6** — Govt. publishes Blue Book on famine and relief operations. Figures show mortality during year is 750,000 which includes 230,000 deaths due to cholera and plague. **December 23–26** — Surendranath Banerjee delivers 18th presidential address of Indian National Congress.

1903

January 1–3 — Coronation Durbar at Delhi proclaims King Edward VII as Emperor of India. **August 22** — Bal Gangadhar Tilak advocates boycott of articles of British manufacture in a students' meeting at Poona. **December 28–30** — 19th session of Indian National Congress meets at Madras under presidentship of Lal Mohan Ghose.

1904

April — Mahatma Gandhi establishes *Indian Opinion*, Weekly journal representing Indians' point of view, in

Phoenix, South Africa. **August 8** — Lord Curzon gets extension as Viceroy of India. **August 14** — Dadabhai Naoroji criticises British Imperialistic policies in India at International. Socialist Congress at Amsterdam. **November 15** — Former Viceroy Lord Northbrook passes away. **December 16–28** — Sir Henry Cotton delivers 20th Presidential address of Indian National Congress.

1905

April 13 — Earthquake wrecks towns of Sultanpur and Mandi killing about 15,000 people. **30** — In India plague kills 57,000 in a week according to reports. **July 20** — Govt. announces decision to partition Bengal despite several protests. **August 19** — King of England accepts resignation of Lord Curzon and appoints Lord Minto as Viceroy. **September 1** — Govt. of India, in a proclamation, announces partition of Bengal from October 16, 1905 — and appoints J. B. Fuller as Lieut. Governor for Eastern Bengal. **December 27–30** — G. K. Gokhale delivers 21st Presidential address of Indian National Congress at Banares.

1906

January — Prince and Princess of Wales visit India. **August 6** — Sri Aurobindo Ghose starts *Bande Mataram* under his editorship. **December 26–29** — 22nd session of Indian National Congress meets at Calcutta under presidentship of Dadabhoy Naoroji. **27** — Members of *Indian deputation* (G. K. Gokhale and Lala Lajpat Rai) sail for England. **30** — Muslim Educational Conference at Dacca resolves to form All India Muslim League for furtherance of its objects.

1907

January 2 — Bal Gangadhar Tilak and G. K. Gokhale embark upon nation-wide campaign to convince public of their respective party's position. **May 9** — Police arrests Lala Lajpat Rai and deports him to Mandalay. **December 26–27** — Rash Behari Ghosh presides over 23rd session of Indian National Congress at Surat.

1908

April 19 — Congress session at Allahabad adopts draft of amended constitution of Congress. **30** — Khudiram Bose, a young man of 18, kills two English ladies by throwing bomb meant for Mr. Kingsford, Dist. Judge. **June 13** — Kudiram Bose gets death sentence for murder of two English Ladies — Mrs. and Miss Kennedy — in bomb attack. **21** — Bomb wrecks mail train at Barackpur and injures 3 passengers. **24** — Bombay police arrests B. G. Tilak for his article *The Country's Misfortune* in "*Kesari*" dated May 12, under sections 124-A and 153A of I.P.C. **August 18** — Madame Cama, India's first woman revolutionary, unfurls India's National Flag in foreign country. **October 24** — Chittaranjan Das devotes himself to Sri Aurobindo's Alipore Bomb Conspiracy case. **November 2** — Govt. of India issues proclamation commemorating fiftieth anniversary of the Crown's assumption of direct rule in India. **December 29–30** — Rash Behari Ghosh presides over 23rd session of Congress at Madras.

1909

January 15—Charan Bose kills Asutosh Biswas by shooting, public prosecutor in anarchist conspiracy case. **March 19** — Charan Bose is executed. **May 6** — Judgement in Alipore Conspiracy case awards death to two transportation for life to 7, penal servitude to 5 and acquits 22. **August 19** — Sir Badruddin Tayabji dies. **November 13** — Viceroy Lord Minto, escapes bomb attack. **13–22** — Gandhiji sails for South Africa. He writes his 30,000-word manuscript, Hind Swaraj, on board s.s. Kildonian Castle. **December 21** — Magistrate Jackson of Nasik court was shot dead. **27–29** — Madan Mohan Malaviya presides over 24th session of Congress held at Lahore.

1910

April 25 — Gandhiji writes to G. K. Gokhale from South Africa summarising progress of Indian struggle for equal rights. **September 30** — Plague claims 448,319 lives in 12 months according to official statistics. **November 22** Lord Hardinge of Penhurst succeeds Lord Minto as Viceroy of India. **December 26–29** — 25th session of Congress meets at Allahabad. Sir William Wedderburn presides.

1911

March 18 — Fifth decennial census places total population of India at 315,156,396. **September 30** — Plague takes lives of 713,377 people in past 12 months according to official statistics. **December 2** — King George and Queen Mary, first British Sovereigns to visit India, arrive in Bombay. **12** — King holds Coronation Durbar at Delhi, announces shifting of capital from Calcutta to Delhi. **15** — King lays foundation for new Govt. buildings at Delhi. **26–28** — Bishan Dhar delivers 26th presidential address of Indian National Congress at Calcutta.

1912

January 10 — King George and Queen Mary leave India for England. **June** — G. K. Gokhale sails for England. **October 22** — G. K. Gokhale arrives in Cape Town, South Africa, from England. **December 23** — Lord Hardinge escapes bomb attack by Rash Behari Bose, a Govt. servant. **26–28** — 27th Indian National Congress meets at Bankipur. R. N. Mudholkar presides. Jawaharlal Nehru attends session for first time.

1913

December 26 — 28th sessions of Indian National Congress meets at Karachi under presidentship of Nawab Mohammad.

1914

June — Lokmanya Tilak gets release after his term of imprisonment from Mandlay. **December 17** — Gandha Singh commits decoity in Papali village of Hissar district to raise funds for revolutionaries. Instead of Gandha Singh, Pandit Kanshi Ram and associates were hung. **28–30** — Bhupendranath Basu delivers Presidential address of Indian National Congress at Madras.

1915

February 19 — Gopal Krishna Gokhale passes away. **22** — M. A. Jinnah said about Gokhale: He was a great man, respected by Muslims as much as Hindus and trusted by both. **April 30** — In Lahore Sedition case leader Bhai Para and 23 others get death sentence and 27 transportation for life. **November 5** — Sir Pherozeshah Mehta, a founder of Indian National Congress, dies. **December 27–30** — Satyendra Prasanna Sinha delivers the 30th Presidential address of Indian National Congress.

1916

February 4 — Mahatma Gandhi performs opening ceremony of Banares Hindu University. **10** — Sohan Lal Pathak was executed in Mandalay. **12** — Nawab Syed Mohammed Bahadur who presided over Karachi session of Indian National Congress, dies. **April 4** — Frederick John Napier Theisger assumes office as Viceroy. **September** — Rabindranath Tagore sails for United States. **3** — Mrs. Annie Besant founds Home Rule League. **November 19** — Pandit Bishan Narayan Dhar, who presided over Calcutta session of Congress, dies. **December 26–30** — Ambika Charan Mazumdar, delivers 31st

Presidential address of Congress at Lucknow. Jawaharlal Nehru meets Mahatma Gandhi for first time.

1917

February 9 — Gandhiji addresses Imperial Citizenship Association and condemns inhuman system of indentured labour. **23** — Commissioner of Delhi serves notice prohibiting Lokmanya Tilak from entering Delhi Province. **April 10** — Gandhiji meets Dr. Rajendra Prasad at Patna and J. B. Kripalani in Muzuffarpur in connection with indigo planters of Champaran. **14** — Gandhiji receives notice from Commissioner to quit Chaparan. He visits neighbouring villages and meets peasants of area. **June 30** — Dadabhoy Naoroji, Grand Old Man of India, dies. (He was a founder member of Indian National Congress and delivered presidential addresses in 1886, 1893 and 1906). **July 10** — Lord Chamberlain, Secretary of State for India, resigns. **August 20** — British Government announces Montague Scheme regarding responsible government for India as a goal of British policy. **November 29** — Air Force Constitution Act comes into force. **December 26–29** — Mrs. Annie Besant delivers 32nd Presidential address of Indian National Congress at Calcutta.

1918

February 22 — Textile Mill owners of Ahmedabad declare a lock-out. **March 22** — Viceroy unveils marble bust of Gopala Krishna Gokhale. **March 29–31** — Hindi Sammelan meets at Indore. Gandhiji presides. **April 2** — British Prime Minister appeals to Govt. and people of India to save Asia from German tyranny. **4** — Home Dept. of Govt. of India refuses passport to B. G. Tilak to proceed to England. **8** — M. A. Jinnah protests denial of passport to B. G. Tilak, at a public meeting in Bombay. **27–29** — Madan Mohan Malaviya and Gandhiji attend War Conference convened by Viceroy in Delhi. Gandhiji addresses Conference in Urdu. **May 9** — Mrs. Sarojini Naidu presides over 24th Madras Provincial Conference at Conjeevaram. **August 21** — All India Moderate Conference meets in Bombay with Sir D. E. Wacha as Chairman and Surendranath Bannerjee as President. **22** — Council of Servants of India Society resolves to abstain from Special Congress of Moderates. **29–September 1** — Special session of Indian National Congress meets in Bombay under presidentship of Mr. Imam Hasan. (The session was called to discuss the Montague-Chelmsford Reforms which disappointed Indians). **August 31** — All India Muslim League meets at Bombay under Chairmanship of Raja Saheb of Mohmudabad. **October 8** — Gandhiji moves *Young India* from Bombay to Ahmedabad. **November 13** — B. G. Tilak writes to British Prime Minister, Mr. Lloyd George, on behalf of Home Rule League and Indian National Congress, expressing hope for peace, liberty and human co-fraternity for India, as defined in Armistice signed on November 11, 1918. **December 26–31** — Madan Mohan Malaviya presides over 33rd Session of Indian Congress. He denounces Montague-Chelmsford Reforms.

1919

January 1 — Mrs. Annie Besant presides over All India Ladies Conference. Government publishes Rowlatt Report. **February 8** — Mopla revolt breaks out in Malabar coast of Kerala. **28** — Gandhiji issues press statemnt condemning Rowlatt Bill. **March 4** — Viceroy talks to Gandhiji at New Delhi about Rowlatt Bill. **23** — Gandhiji begins fast and exhorts hartal throughout India as protest against Rowlatt Bill. **28** — M. A. Jinnah writes to Viceroy to say Rowlatt Bill shocks all Indians. **31** — Military attacks peaceful satyagrahis in Delhi. **April 6** — Madan Mohan Malaviya resigns from Imperial Council. Whole of India observes *hartal*. **10** — Rowlatt Bill riots take place at Ahmedabad. **12** — Demonstrators clash with police at Lahore, Bombay, Calcutta and Amritsar. **13** — Gen. Dyer proclaims martial law and bans public meetings at Amritsar. Later at Jallianwala Bagh Gen. Dyer's men open fire on peaceful meeting and kill nearly 400 and injure more than 1,000. **15** — Martial law comes into force in Lahore. **16** — Serious riots break out in Gujranwala, Akalgarh, Hafizabad. **22** — Gen. Campbell orders inhabitants of Gujranwalla to salute all British officers. **26** — Govt. arrests Benjamin Guy Horniman, editor, *Bombay Chronicle* and deports him to England. **May 11** — Mrs. Annie Besant resigns presidentship of Home Rule League. **27** — Dr. Rabindranath Tagore returns to Govt. of India title "Knight" conferred on him. **June 3** — Madan Mohan Malaviya gets elected to Viceregal Council. **8** — Maulana Shaukat Ali and Mohammad Ali are lodged in Tul jail. **24** — Gandhiji presides at Bombay meeting protesting the deportation orders on Horniman and Rowlatt legislation. **July 19** — Sir Sankaran Nair resigns membership of Executive Council of Viceroy in protest against Martial Law. **October 17** — India celebrates *Khilafat* Day. **November 8** — Nationalist Council meets in Madras. **15** — C. F. Andrews leaves for South Africa. **23** — All India *Khilafat* Conference meets at Delhi. **December 25** — Maulana Mohammad Ali joins Indian National Congress. **27 — January 1** — Motilal Nehru delivers 34th Presidential address of Indian National Congress at Amritsar.

1920

January 1 — King of England orders release of Maulana Abul Kalam Azad and other political prisoners. **10** — India becomes a member of League of Nations. **18** — Maulana Abul Kalam Azad meets Gandhiji in connection with *Khilafat* movement. **19** – Gandhiji leads *Khilafat* deputation to Viceroy. **February 21** – *Khilafat* conference meets at Meerut. Gandhiji reveals his non-co-operation programme for first time. **26** — First Indian *Khilafat* deputation reaches London. **March 14** — Police raids office of Bengal Provincial *Khilafat* Committee. **20** — Congress Democratic Party brings out its manifesto. **April 28** — Gandhiji becomes president of Home Rule League. **June 2** – Govt. of India publishes revised draft rules for Provincial councils, Indian Legislative Assembly and Council of State in a Gazette Extraordinary. **August 1** — Bal Gangadhar Tilak passes away. Gandhiji returns his Kaiser-i-Hind medal and Boer War Medal to Viceroy. **September 4–9** — Congress Session meets at Nagpur; C. Vijairaghavachariar delivers 35th presidential address. **8** – AICC's special session at Calcutta passes Gandhiji's resolution on non-co-operation. **December 26–31** – 36th Annual session of Congress meets at Ahmedabad under presidentship of Hakim Ajmal Khan.

1921

January 13 – R. N. Mudholkar passes away. **19** – C. R. Das, eminent Barrister of Calcutta, suspends practice and resolves to devote life for Nation's cause. **31** – Gandhiji inaugurates Gauria Sarva Vidyayatan (Bengal National College) with Subash Chandra Bose as first principal. **February 9** — Government serves Lala Lajpat Rai with prohibitory orders from entering North West Frontier Province to make enquiries regarding grievances of people there. **20** — Mahant Narayan Das and group of Nankana in Punjab kill 150 Akali Sikhs. **April** — Subhash Chandra Bose resigns from Indian Civil Service and joins politics as an aggressive nationalist. **1** — AICC meets at Bezwada and decides to collect Rs. 10 million for Tilak Swaraj Fund. **2** — Lord Reading assumes office as Viceroy of India. **13** — Gandhiji meets Viceroy; People all over India observe Jallianwala Bagh anniversary. **22** — A new political party "Indian Progressive Federation" comes into being under leadership of Aga Khan. **23** — Sarojini Naidu urges ladies at Bombay meeting to discard foreign clothes and take to spinning and hand-made cloth. **May 3** — Swami Govindananda receives sentence of transportation for 5 years in connection with N.C.O. work. **July** — Rabindranath Tagore returns to India from Europe. **1** — Gandhiji announces Tilak Swaraj Fund exceeds Rs. 10 million. **16** — Subhash Chandra Bose meets Gandhiji in Bombay to discuss ways and means to achieve independence. **29** — Govt. of India publishes "Agreed Summary" of Gandhiji — Reading (Viceroy) interview. **31** — People light a huge bonfire of foreign cloth, worth millions of rupees, in presence of Gandhiji in Bombay. **August 20** — Mopla Rebellion breaks out at Tirurangadi, Malabar, Kerala. **24** — Govt. of India declares Martial Law in disturbed parts of Malabar, Kerala. **29** — Mrs. Annie Besant presides over Bombay Provincial Reforms Conference. **30** — Labour disturbances break out in Bombay mill areas. **September 1** – Picketing at foreign cloth shops begins at Barabazar, Calcutta. **10** – Marwari Chamber of Commerce representatives meet Gandhiji in connection with boycott of foreign cloth. **18** — Indian National Congress elects C. R. Das as its president. **20** — Dr. S. C. Banerjee was sentenced to one years' jail for N.C.O. work. **26** — Trial of Ali Bros. begins at Karachi. **October 8** — Gandhiji lights second bonfire of British cloth in Bombay. **17** — Mahant Narain Das of Nankana Sahib of Punjab and 7 others are sentenced to death and 17 others to 7 years R.I. for murder of Akali Sikhs. **30** — Police detachment attacks Mopla rebels and kills 26. In attack 7 policemen die. **November 2** — Mopla leader Ali Musaliar and 37 others are sentenced to death. **4** — AICC at Delhi authorises programmes of civil disobedience and boycott of foreign cloth. **6** — C. R. Das along with 4 others are arrested and beaten by police in Calcutta for picketting foreign cloth shops. **13** — Ahmedabad P. C. C. decides Bardoli and Kaira as venues to start Civil disobedience from November 23. **18** — Gandhiji undergoes 5-day fast. **20** — 100 Mopla prisoners carried in closed goods wagon of a train die of asphyxia. **December 6** — Mopla revolt comes to halt. (Since outbreak of revolt 1,826 Moplas were killed, 1,500 wounded, 5,400 captured and 14,000 surrendered). **7** — C. R. Das, Urmila Devi, Suniti Devi and others are arrested for selling *Khaddar*. **16** — S. Srinivasa Iyengar renounces title and seat in Council in protest against Govt. repression. **22** — Trials of Lala Lajpat Rai, Santanam, Gopi Chand and Malik Lal Khan begin at Lahore Central jail. **23** — Inauguration of Visva Bharati takes place. Properties at Shantiniketan are legally transferred to it by trust deed. **23** — Mahadev Desai gets 1-year R.I. for publishing manuscript edition of *Independent*. **24** — Prince of Wales arrives in Bombay. City observes *hartal*. **27–28** — 36th session of Congress meets at Ahmedabad. Hakim Ajmal Khan, acting president, delivers address as president C. R. Das is in jail.

1922

January 7 — Police arrests Mopla King V. Kunhamad Harf in Malabar. **13** — Prince of Wales arrives in Madras where hartal is observed. Police opens fire on mob. **25** — Amendment of Factory Act provides 60-hour week, weekly rest day and raises minimum age of child-workers from 9 to 12 years. **29** — Gandhiji, Sardar Patel and Tyabji meet at Bardoli to formulate plan of mass Civil Disobedience. **February 4** — Gandhiji intimates Viceroy and Govt. of India about mass civil disobedience movement at Bardoli under his leadership. **5** — A mob of more than 300 non-co-operators attacks Chauri Chaura police station and kill 22 policemen. Govt. bans all Congress organisations. **10** — G. Ramachandra Rao of Cocanada refuses to take oath in court and gets S. I. for one month. **12** — Gandhiji suspends mass civil disobedience as violence creeps in. He undergoes fast for 5 days to do penance for Chauri Chaura and Bareilly tragedies. **March 9** — Gandhiji is arrested; Lala Lajpat Rai is sentenced to one-year R.I; Montague resigns as Secretary of State for India. **17** — Prince of Wales ends tour and embarks for Far East. **April 16** — Rabindranath Tagore lays foundation for University at Shantiniketan. **May 25** — Mrs. Kasturba Gandhi presides over Gujarat political conference at Anand. **July 25** — Members of Civil Disobedience committee reach Madras; Pt. Nehru addresses public meeting. **December 26–31** — 37th Session of Indian National Congress meets at Gaya under presidentship of C. R. Das.

1923

January 1 — Deshbandhu Das and Motilal Nehru form Swarajya Party. **February 9** — Hindu-Muslim riots break out in Ahmedabad. **May 7** — Hindu-Muslim riots break out in Amritsar. **June 18** — Police arrests Jamnalal Bajaj in Nagpur. **July 4** — Jamnalal Bajaj is sentenced to 18 months' R.I. **September 25** — Congress meets at Delhi and adopts resolution to propose candidates for the Leg. Assembly and Provincial Councils in order to obstruct legislation. **October 14** — Swarajya Party issues its manifesto on "Wrecking the Constitution from within the Reformed Councils." **23** — Deshbandhu Das publishes a daily paper *Forward*. **25** — Police arrests Dhanna Singh with a live bomb who explodes it and kills himself, five policemen and an Englishman. **December 20** — Hindu-Muslim riots break out at Lahore. **28 — January 1** — 38th Congress session meets at Cocanada under presidentship of Maulana Mohammed.

1924

January 12 — Gandhiji undergoes operation at Sassoon Hospital, Poona, for appendicitis. **March 16** — Bhupendra Nath Basu passes away. **April 4** — Gandhiji takes over Editorship of *Young India* and *Navjivan* papers. **12** — Criminal Procedure Code Amendment Act removes racial distinctions in courts. **May 25** — M. A. Jinnah delivers presidential address at Lahore session of Muslim League. **July 27** — Communal riots break out in Delhi. **August 1** — Pt. Motilal Nehru and M. R. Jayakar are elected as directors of *Bombay Chronicle*. **17** – Gandhiji arrives in Delhi in connection with Hindu-Muslim riots. **September 18** — Gandhiji undergoes 21-day fast for Hindu-Muslim Unity. **October** — Subash Chandra Bose is arrested and lodged in Alipore jail. **8** — Gandhiji ends fast. **25** — Govt. amends Criminal Law of Bengal Ordinance to deal with revolutionary violence. **December 26–27** — Gandhiji delivers 39th presidential address of Congress session at Belgaum.

1925

January 1 — Lord Reading announces determination to end terrorism of criminal organisations in Bengal. **February 28** — Fifty-four terrorists are convicted in Lahore Conspiracy case. **March 7** — Gandhiji arrives in Madras *en route* to Vaikom. **May 1** —Gandhiji addresses meeting in Bombay and explains programmes regarding Hindu-Muslim Unity, removal of untouchability and use of spinning wheel. **2** — In a Faridpur meeting C. R. Das offers co-operation to Govt. and asks for Dominian Status for India. **June 16** — Chittaranjan Das dies at Darjeeling. **23** — Mrs. C. R. Das becomes Editor-in-Chief of *Forward* of Calcutta. **July 28** — Pt. Motilal Nehru accepts seat on Steering Committee. **August 6** — Sri Surendranath Banerjee passes away. **25** — Pt. Motilal Nehru is elected president of Lower House. He is first Indian to hold this position. **October 29** — Lord Irwin is appointed to succeed Earl Reading as Viceroy and Governor-General of India. **November 25** — A deputation leaves for South Africa to enquire into resident Indians' condition there. **December 26–28** — Sarojini Naidu delivers 40th presidential address of Indian National Congress at Kanpur.

1926

January 19 — Dwijendranath Tagore passes away at Shantiniketan. **February 7** — Elkins, A.S.P. in Madan Sub Divn. of Peshawar, is shot dead by a tribesman. **9** — Viceroy announces creation of Royal Indian Navy and reconstruction of Indian Mercantile Marine. **22** — T. Rangachariar and Pt. Madan Mohan resign from National Party. **March 25** — Trade Union Act is passed. **April 12** — Erle Handiside, Commandant of Frontier Constabulary, is murdered. **13** — Hindu-Muslim riots break out in Calcutta. **June 14** — Communal riots take place at Rawalpindi. **July** — Communal riots, in Calcutta. **15** — Hindu-Muslim riots break out again in Calcutta. **17** — Viceroy appeals to communal leaders to maintain peace. **August 7** — Defying Bengal Government's orders Pt. Madan Mohan Malaviya enters Calcutta. **September 19** — Gandhiji participates in a garden party given by South African delegation, Bombay. **November** — M. A. Jinnah returns unopposed to Assembly. **December 26–28** — 41st session of Indian National Congress meets at Gauhati. S. Srinivasa Iyengar delivers presidential address.

1927

January 5 — Samuel Hoare, Secretary of State for Air, inaugurates Egypt to India Air service. **February 1** — Rai Sahib Harbilas Sarda introduces a Bill prohibiting Hindu child marriage below 12 for girls and 15 for boys. **16** — First railway, connecting India and Nepal, is inaugurated by Maharaja of Nepal. **March 14** — Abdul Rashid is sentenced to death for murdering Swami Sharadhanand. **20** — Muslim leaders meet at Delhi under presidentship of M. A. Jinnah and discuss Hindu-Muslim unity. **May 7** — Communal riots in Lahore. **19** — Nagpur Satyagrahis are arrested. **June 4** — Awami, leader of Nagpur Satyagraha movement, is sentenced to 4 years R.I. **July 23** — First Commercial Broadcasting station is inaugurated by Viceroy in Bombay. **August 29** — Viceroy opens Calcutta Broadcasting station. **September 4** — Communal riots kill 19 and injure 123 in Nagpur. **October 11** — Prof. Indra, S/o Swami Shradhanand, is arrested. **November 2** — Jawaharlal Nehru visits Moscow during tenth anniversay celebrations of Russian Revolution. **December 1** — Dr. Annie Besant inaugurates Boycott Committee. **17** — Accused Ashfaquallah, Rajendra Lahiri and Ram Parshad Bismil of Kakori Conspiracy case are hanged. **26** — M. A. Ansari delivers 42nd presidential address of Congress session in Madras. **December 29** — Hakim Ajmal Khan passes away. **30–31** — All India Muslim League holds its session at Calcutta. **30** — Hindustan Seva Dal Conference meets at Calcutta under presidentship of Subhash Chandra Bose.

1928

January 15 — All Party Boycott Conference held at Banaras under presidentship of Dr. Ansari, decides to boycott statutory commission and observe *Hartal* through out India on 3rd February. **30** — Subash Chandra Bose is awarded Rs. 1,000 damage in Statesman libel case. **February 4** — Simon Commission arrives in India. **12** — Vallabhbhai Patel leads Bardoli satyagraha with Gandhiji's blessings. **19** — Maharaja of Nabha is deprived of title and allowances on charge of disloyality to Government. **22** — Lord Irwin, Viceroy, declares Govt.'s determination to hold Simon Commission's enquiry. **March 1** — Campaign for boycott of British goods starts in Calcutta. **5** — East Indian Railway employees strike work for higher wages. **April 23** — Maganlal Gandhi, a freedom fighter, dies in Patna. **May 5** — Subhash Chandra Bose presides over Sixth Maharashtra Provincial Conference. **6** — Prof. Indra is released from jail. **28** — Jawaharlal Nehru presides over Kerala Provincial Conference at Payyanur. **31** — Simon Commission sails back. **June 24** — Non-official enquiry into Bardoli revenue settlement commences. **August 10** — Worli Socialist Congress supports India's claims for self-government. **September 13** — Subhash Chandra Bose acts as an arbitrator of Jamshedpur strike. **October 11** — Simon Commission arrives again in India. **30** — Simon Commission arrives in Lahore; Police assaults Lala Lajpat Rai and other leaders during protest meetings. **November 5** — Bardoli enquiry commences. **17** — Lala Lajpat Rai passes away as a result of police beatings on October 30. **29** — Lala Lajpat Rai day is observed throughout India and public meetings are held. **30** — Jawaharlal Nehru and students are beaten at Lucknow for black flag demonstrations against Simon Commission. **December 17** — J. P. Saunders, Asst. Supdt. of Police, is shot dead by a youth at Lahore. **22** — Nehru Committee report regarding communal representation in Legislative Assembly is out. Motilal Nehru delivers 43rd Presidential address to Indian National Congress at Calcutta.

1929

January 10 — Dr. Annie Besant bemoans Gandhiji's Non-Co-operation and Civil Disobedience programmes in an article in *New India*. **28** — Lord Irwin, Viceroy, inaugurates Legislative Assembly and pledges Br. Govt. will do everything to help India attain full national political structure. **29** — Pt. Motilal Nehru, commenting on Viceroy's speech, says door of negotiation is not closed. **February 9** — Subhash Chandra Bose addresses a youth conference in Patna and inspires youth to build a new society and nation. **18** — Black Flag demonstration greets Simon Commission in Madras; Delhi Congress Working Cttee. decides to boycott foreign cloth and picket shops. **March 1** — Rabindranath Tagore sails for Canada on invitation of National Council of Education of Canada. **8** — Gandhiji arrives in Rangoon during his Burma tour. **30** — Weekly air mail service between England and India is inaugurated. **April 8** — Bhagat Singh and Batukeshwar Dutt are arrested for throwing bomb in Assembly. **9** — National Week in memorium of Jallianwala Bagh is observed with hoisting National Flag, meetings and processions. **14** — Simon Commission leaves for England. **June 12** — Bhagat Singh and his companion are sentenced to transportation for life. **July 5** — Gokaran Nath Misra passes away. **August 4** — Khwaja Hassan Nizami informs Dr. M. A. Ansari, that political salvation of Indian Muslims lies in their joining Indian National Congress. **9** — Gandhiji meets Jinnah and discusses communal question. **11** — Smt. Sarojini Naidu arranges a private meeting of Gandhiji with Jinnah and Ali Brothers in Bombay to amend the Nehru report and make it agreeable to all sections of Muslims. **September 14** — Jatindra Nath Das, aged 23, passes away after 64 days' hunger strike in Lahore prison. **23** — Legislative Assembly passes Child Marriage Bill prohibiting marriages of boys under 18 and girls under 14. **30** — Shivram Hari Rajguru is arrested in Poona with revolver and 13 rounds of ammunition. **November 17** — First death anniversary of Lala Lajpat Rai is observed in Lahore. **30** — Pt. Jawaharlal Nehru delivers presidential address of All India Trade Union Congress at Nagpur. **December 23** — Revolutionaries try to kill Lord Irwin, Viceroy, by blowing off train with time bomb. Viceroy receives Gandhiji, Pt. Motilal Nehru, Sir Tej Badhadur Sapru, M. A. Jinnah etc. to discuss Govt. proposals. **29** — Jawaharlal Nehru delivers 44th presidential address of Congress session at Lahore.

1930

January 5 — Earl Rusell, Under Secretary of State for India, declares India will not be granted Dominion Status in near future. **February 24** — Bombay Government thank Gandhiji for getting millowners' dispute settled in Ahmedabad. **March 6** — Gandhiji proceeds to Dandi to commence Salt Satyagraha. **7** — Sardar Vallabhbhai Patel is arrested in Borsad taluk while addressing public meeting. **8** — Gandhiji addresses public meeting at Ahmedabad. **12** — Gandhiji starts Civil Disobedience with a batch of 79 satyagrahis at 6·30 in the morning. **April 1** — Child Marriage Act comes into effect. **2** — Pt. Madan Mohan Malaviya tenders resignation of Assembly seat. **4** — Riots erupt among railway strikers in Bombay. **6** — Gandhiji breaks Salt Law with 79 others by preparing salt at Dandi. **7** — Ramdas Gandhi and several other salt satyagrahis throughout India are arrested and convicted. **9** — Communal riots erupt in Nasik and kill 100 people. **11** — Pt. Motilal Nehru renames Anand Bhavan as Swaraj Bhavan and dedicates it to public. Communal Riots break out in Bombay and Calcutta. **13** — Pt. Malaviya campaigns for boycott of foreign clothes in Punjab. **17** — Pt. Motilal Nehru takes charge of AICC office. **May 4** — Gandhiji is arrested and taken to Yeravada jail. **6** — *Hartal* is observed all over India in connection with arrest of Gandhiji. **15–17** — Riots take place in Bengal. **16** — Kamaladevi Chattopadhyaya is sentenced to six months S.I. **23** — Mrs. Sarojini Naidu and Manilal Gandhi sentenced to 9 months and 1 year jail for revolutionary activities. **30** — Governor-General issues ordinances to counteract picketing, non-payment of taxes and tampering with loyalty of Govt. servants. **June 3** — Muslims in Bombay take out procession in sympathy with Congress under leadership of S. A. Brelvi, Editor, *Bombay Chronicle*. **10** — Rajendra Prasad, Prof. Bari, Baldev Sahay and others injured by lathi charge on procession at Patna. **18** — Bomb explosions at Lahore, Amritsar, Lyallpur, Gujranwala, Sheikhupura and Rawalpindi. **July 1** — Motilal Nehru and Dr. Syed Mohmed sentenced to 6 months S. I. for being members of Cong. Working Cttee. *Boycott Week*. Congressmen, make house to house visits and get pledges from citizens to boycott foreign goods. **5** — Maulana Shaukat Ali presides over Exec. Cttee. meeting of All Parties Muslim Conference at Simla. **10** — M. S. Aney is arrested and convicted to 6 months S.I. for breaking Forest laws. **17** — Police opens fire on volunteers picketing toddy shops and kill 3 and injure many at Madurai. Viceroy allows Sir Tej Bahadur Sapru and M. R. Jayakar to see Gandhiji, Jawaharlal Nehru and others in jail. **23** — Sir Sapru and Jayakar interview Gandhiji in Yeravda jail. **28** — Sir Sapru and Jayakar meet Nehru at Nainital jail. **August 2** — Sardar Vallabbhai Patel, Pt. Madan Mohan Malaviya, Jairamdas Daulatram and Dr. Hardikar, arrested in Bombay. **7** — Maulana Abul Kalam Azad acts as president of Congress in place of Vallabhbhai Patel. **8** — The Depressed Classes Conference meets at Nagpur under Dr. B. R. Ambedkar. **14** — Martial law proclaimed in N.W.F. Province. **16** — Martial law proclaimed in Peshawar. **21** — Maulana Abul Kalam Azad, acting Cong. President, arrested and taken to Meerut jaill. **22** — Grosby, the additional Suptd. of Police of Dacca, shot dead. **25** — Bomb attempt on Sir Charles Tagart, Commr. of Police, Calcutta. **26** — Dr. Ansari officiates as President of All India Congress Cttee. **28** — SICC declared unlawful; Vallabhbhai Patel, Pt. Malaviya and Dr. Ansari are arrested. **29** — Bengal Inspector General of Police shot and seriously injured. **31** — Ramchandra Sainik, Director of War Council, arrested at Lahore. **31** — G. V. Mavlankar and others arrested at Ramour. **September 2** — Mass arrests of Congressmen in Bombay, Calcutta, Ahmedabad, Surat for picketing foreign cloth shops. **6** — Motilal Nehru released. **15** — R. S. Pandit, son-in-law of Motilal Nehru, sentenced to one year R.I. on charges of sedition. **18** — Special Tribunal sentences Dinesh Chandra to transportation for life in Bomb outrage case on Sir Charles Tagart. Sultan Mohammad, member and Ajit Singh, Director, 'War Council' arrested at Jallianwala. **23** — Asaf Ali, third Director of "War Council" arrested at Delhi. **October 7** — In Lahore conspiracy case Bhagat Singh, Rajguru and Sukhdev sentenced to death; Kishorilal, Mahavirsingh, Vijay Kumar Sinha, Shiv Varma, Gaya Parshad and Premnath Tewari to transportation for life. **17** — Smt. Parvati Devi, D/o Lala Lajpat Rai, arrested at Lahore; The police raid Swaraj Bhavan, Allahabad. **24** — Mahadev Desai, Mahatma Gandhi's secretary, released from jail. **November 8** — Political prisoners in Banaras jail resort to hunger strike. **12** — King of England presides over Round Table Conference as King Emperor of India to discuss question of India's independence. **24** — S. A. Brelvi of *Bombay Chronical* and Sadanand of *Free Press* arrested in Bombay. **December 1** — S. A. Brelvi sentenced to 5 months and a fine of Rs. 250. **2** — Cong. Organisations all over country are declared unlawful. **11** — Sir W. Churchill criticises Congress movement in India. **18** — Jawaharlal Nehru fasts in protest against flogging of prisoners. **21** — Forty ladies in Delhi jail resort to fast. **23** — Governor of Punjab, during convocation ceremony of Punjab University, shot and wounded. Two students arrested. **26** — Bomb explosion injures three at Delhi Central Rly. Stn. **28** — S. Satyamurti, President of Tamilnad Council of Action, arrested for defying police ban on Flag Salutation ceremony.

1931

January 1 — Smt. Kamala Nehru arrested under Criminal Law Amendment Act. **4** — Maulana Mohamad Ali passes away in London. **6** — Vallabhbhai Patel and Ramdas Gandhi convincted under Criminal Law Amendment Act. **10** — S. Satyamurti and eleven others, including a woman, convicted. **18** — Subhash Chandra Bose arrested at Berhampur. **22** — Jamnadas Dwarakadas, a congress worker of Bombay, arrested. **25** — Lord Irwin, Viceroy, cancels notification under Criminal Law Amendment Act and releases Gandhiji and other members of Working Cttee. from jail. **26** — Gandhiji released from prison along with Jawaharlal Nehru, Mrs. Sarojini Naidu and 25 others. **February 6** — Pt. Motilal Nehru expires at 6·40 A.M. at Lucknow. **17** — Gandhiji meets Lord Irwin. **19** — Gandhiji meets Lord Irwin again on invitation. **March 1** — Gandhiji negotiates truce with Viceroy. **4** — Civil disobedience movement to be discontinued, amnesty to persons convicted of non-violent offences in connection with civil disobedience, withdrawal of ordinances, restoration of confiscated or attached properties are granted by Govt. in truce agreements. **23** — Viceroy rejects Bhagat Singh's mercy petition. Bhagat Singh executed at midnight. **27** — In Navjiwan Conference at Karachi, Subhash Chandra Bose, in presidential address questions usefulness of truce agreement between Gandhiji and Viceroy in view of execution of Bhagat Singh. **29** — 45th Session of Indian National Congress meets at Karachi under presidentship of Vallabhbhai Patel. **31** — Young revolutionaries greet Gandhiji with black flags because of Bhagat Singh's execution. **April 17** — Lord Willingdon, new Viceroy, arrives in India. **18** — Gandhiji bids farewell to Lord Irwin. **23** — Jawaharlal Nehru given rousing reception on landing at Colombo. **May 7** — In encounter with police at Lahore Jagdish Chandra, a revolutionary, is killed. **June 27** — B. R. Gorlic, District Session Judge of 24 Parganas, shot dead by a Bengali youth. Police kill assailant. **July 22** — A youth shoots Bombay Governor Sir

Ernest Hoston. He escapes as bullet strikes metal button of pocket book. **August 1** — Congress Wkg. Cttee. approves Gandhiji's National Flag with slight modification. **27** — Gandhiji and Willingdon sign fresh agreement reserving rights of Congress to adopt defensive direct action. **29** — Gandhiji sails for London to attend Round Table Conference. **September 11** — Subhash Chandra Bose addresses Tamilnad Navjivan Conference. **12** — Gandhiji arrives in London. **15** — Gandhiji addresses Federal Structure Cttee. **30** — Lord Burnham declares Gandhiji as greatest enemy of British. **October 13** — Gandhiji addresses National Labour Club in London. **November 3** — Subhash Chandra Bose asks revolutionary elements in Bengal to rally round Congress banner and follow its programme. **5** — Gandhiji meets King George in London. **10** — Gandhiji addresses mass meeting at Friends' Meeting House in London. **December 5** — Gandhiji leaves for India. **25** — Abdul Ghaffar Khan arrested. **28** — Gandhiji lands in Bombay. **29** — Viceroy refuses Gandhiji's request for talks.

1932

January 2 — Subhash Chandra Bose arrested in Bombay. **4** — Gandhiji arrested in Bombay; Govt. declares Congress Working Cttee. unlawful. **5** — Dr. Rajendra Prasad, Congress President, arrested; Dr. Ansari becomes Cong. President. **8** — Dr. Ansari arrested. **9** — Rajagopalachari and S. Satyamurty arrested in Madras. **10** — Kasturba Gandhi and others arrested at Bardoli. **13** — The police takes into custody "Swaraj Bhawan" in Allahabad. **22** — Congress Funds in Bombay banks frozen. **26** — Mass arrests and convictions take place all over country on Independence Day. **February 6** — Sir Stanley Jackson fired at by a girl student at Convocation in Calcutta. **19** — Morarji Desai resigns as Dy. Collector and becomes Secretary of Gujarat Cong. Cttee. **March 15** — Smt. Kasturba Gandhi arrested and sentenced to 6 months R.I. by Bardoli magistrate. **April 4** — Maulana Shaukat Ali complains against Congress picketing in front of Muslim firms in Bombay. **22** — Smt. Sarojini Naidu sentenced to one year S.I. **24** — 46th session of Indian National Congress meets at Delhi under presidentship of Amrit Ranchhoddas Seth. **30** — Robert Douglas, Dist. Magistrate of Midnapore, shot dead by a Bengali youth. **May 16** — Riots break out in Bombay in which 100 are dead and 1,000 injured. **June 17** — Viceroy talks to Tej Bahadur Sapru and M. R. Jayakar. **July 7** — J. B. Kripalani arrested in Banaras. **8** — Tej Bahadur Sapru, M. R. Jayakar and N. M. Joshi resign membership of Consultative Cttee of Round Table Conference. **August 4** — Two persons are arrested at Dinapur for attempting to hoist National Flag on Sub-jail. **16** — Prime Minister's award on communal representation in Indian Provincial Council announced. **21** — Punjab Hindu Conference at Lahore protests Communal award. **28** — Dr. Saifuddin Kitchlew arrested and sentenced to 2 years' R.I. for violating ban on entry into Lahore and Ambala. **September 12** — Gandhiji resolves to undergo fast unto death against Govt.'s decision to give separate electorates for depressed classes. **18** — 12 temples thrown open to depressed classes in Allahabad. **19** — Meetings held all over country against communal award. **20** — Gandhiji starts fast in Yeravda jail. **24** — Bomb explosion kills several Europeans in European Club at Chittagong. **26** — Gandhiji breaks fast. **October 5** — Pt. Madanmohan Malaviya and Shaukat Ali discuss inter-communal settlement. **31** — Viceroy refuses permission to Maulana Shaukat Ali for interviewing Gandhiji in jail. **November 17** — Purushottam Das Tandon arrested in Allahabad. **December 14** — Plenary session of Unity Conference meets in Allahabad under presidentship of C. Vijayaraghavachariar.

1933

January 1 — Gandhiji announces plan to undertake fast in sympathy with Kelappan in Kerala for getting temples opened for Harijans. **4** — Civil Disobedience Day celebrated all over country, lathi charges and mass arrests take place. **6** — Rajendra Prasad, Acting Cong. President, arrested at Bankipore. **7** — Pyarelal, Gandhiji's secretary, arrested from Mani Bhavan at Bombay. **14** — Kilappan meets Gandhiji at Yeravda jail and discusses temple entry issues. **18** — Rajendra Prasad is sentenced to 15 months R.I. **26** — Many are arrested and sent to jail all over country for celebrating Independence Day. **February 3** — Govt. of India decides to drop 'Delhi Conspiracy' case. **23** — Subhash Chandra Bose sails for Europe from Bombay. **March 1** — Govt. bans Calcutta session of Congress. **31** — Madan Mohan Malaviya, his son and grandson are arrested at Asansol station on their way to Calcutta session. **April 1** — Mrs. Sen Gupta delivers 47th presidential address of Calcutta Congress in place of Madan Mohan Malaviya. Many are lathi charged and arrested since session is banned by Govt. **23** — Dr. B. R. Ambedkar meets Gandhiji. **May 8** — Gandhiji is released from jail. **13** — M. A. Jinnah addresses Indian Students Union and urges need for united front in India. **28** — Andamans prisoners go on hunger strike. **July 17** — Viceroy refuses to meet Gandhiji. **31** — Gandhiji and his 33 followers rearrested and imprisoned in Sabarmati prison. **August 18** — C. F. Andrews meets Gandhiji in prison. **23** — Gandhiji is released unconditionally. **30** — Jawaharlal Nehru is released from jail to enable him to see his ailing mother. **September 10** — Jawaharlal Nehru meets Gandhiji. **12** — All India Library conference meets in Calcutta. **20** — Dr. Annie Besant passes away. **November 7** —Gandhiji starts Harijan tour from his Satyagraha Ashram, Wardha. **10** — Vithalbhai Patel passes away in Bombay.

1934

January 15 — Earthquake in North India. **16** — Gandhiji leaves Calcutta for his South Indian tour. **February 5** — Rangaswami Iyengar, Editor of *Hindu* passes away. **28** — Sikh National Conference condemns Premier's Communal Award. **April 7** — Hindu Mahasabha Working Committee declares Communal Award constitutes grave injustice to Hindu community. **18** — Rabindranath Tagore appeals to Govt. to release all political prisoners. **24** — Sir C. Sankaran Nair passes away. **May 8** — Sir John Anderson, Bengal governor, escapes revolver shot. **31** — Sir Samuel Hoare, Secretary of State for India, condemns Winston Churchill's and Lord Lloyd's reactionary policy against India. **June 12-13** — Cong. Working Cttee. passes resolution on "White Paper and Communal Award." **25** — Gandhiji escapes bomb outrage on his car at Poona. **July 28** — Pt. Madan Mohan Malaviya and M. S. Aney form a new party styled "National Party."

August 29-30 — Provincial Kisan Conference meets at Gaya under presidentship of Purushottam Das Tandon. **October 1** — Dr. Rajendra Prasad accepts Presidentship of Congress. **26-28** — 48th Session of Indian National Congress meets at Bombay. Dr. Rajendra Prasad delivers presidential address. **November** — Subhash Chandra Bose publishes his own account of Indian Nationalism *The Indian Struggle*. **December 3** — Subhash Chandra Bose goes to Calcutta to meet his dying father Jankinath Bose. **7** — Khan Abdul Ghaffar Khan, Frontier Congress leader, is arrested at Wardha. **15** — Khan Abdul Ghaffar Khan is sentenced to 2 years R.I.

1935

January 2 — M. V. Abhyankar, Central Provinces Congress leader passes away in Bombay. **15** — Bhulabhai

Desai is elected leader of Congress in Assembly. **20** — M. A. Jinnah is elected leader of Independent party in Assembly. **26** — M. S. Aney becomes leader of Nationalist Party in Assembly. **31** — Calcutta citizens protest against continued detention of Sarat Chandra Bose and demand his unconditional release. **May 6** — India celebrates H. M. King's silver jubilee. **23** — Mrs. Kamala Nehru leaves for Europe. **31** — Gandhiji meets Abdul Ghaffar Khan in Sabarmati jail; Quetta and surrounding districts are affected by earthquake shocks of severe intensity. Many die, famine prevails. **June 2** — Viceroy and Cong. President appeal for funds for relief of sufferers in Quetta earthquake. **July 8** — Sikh-Muslim tension — Curfew order in Lahore. **26** — Sarat Chandra Bose is released from prison unconditionally. **September 4** — Jawaharlal Nehru leaves for Europe after his release from jail to see his ailing wife. **22** — Indian Journalists Council condemns Criminal Law Amendment Bill at its Calcutta meeting. **23** — Conference of Harijans at Ahmedabad condemns Nasik decisions asking Harijans to change their religion. **November 28** — Golden Jubilee of Indian National Congress is celebrated all over India.

1936

January 1 — Depressed classes start mass satyagraha in United Province (Uttar Pradesh). **February 13** — Sir Dinshaw Wacha, Old Congress president, expires in Bombay. **March 12** — Jawaharlal Nehru returns to India with ashes of his late wife Smt. Kamala Nehru. **16** — Nehru meets Gandhiji at Delhi to discuss political situation. **April 12** — All India Muslim League passes resolution opposing Govt. of India Act 1935. **12–14** — Jawaharlal Nehru delivers presidential address of 49th Session of Indian National Congress at Lucknow. **May 10** — Dr. M. A. Ansari (ex-president of Congress) expires in train while travelling from Dehra Dun to Delhi. **August 16** — Madam Cama passes away in Bombay. **October 25** — Gandhiji performs opening ceremony of Mother India temple at Banaras. **December 23** — All India Socialist Congress meets at Faizpur under presidentship of Jayaprakash Narayan. **27–28** — Indian National Congress meets at Faizpur. Nehru delivers 50th presidential address.

1937

January 1 — M. A. Jinnah makes a strong plea for Hindu-Muslim unity in Nagpur meeting. **3** — M. A. Jinnah asks Congress not to interfere in Muslim Affairs. **February** — Rabindranath Tagore delivers Convocation address of Calcutta University in Bengali (Normally this privilege had been given to Viceroys and Governors of Bengal). **March 15** — AICC decides to accept office where Congress is in majority. **17** — Subash Chandra Bose is released from prison in Calcutta. **21** — All India Political Prisoners' Relief Conference meets at New Delhi under presidentship of Sarat Chandra Bose. **28** — Congress leaders decline to form ministries without assurance of non-interference from Governors. **April 1** — India observes *hartal* as a protest against New Constitution. **6** — Rajendra Prasad urges Muslims to join Congress. **27** — Jawaharlal Nehru and M. A. Jinnah issue counter statements regarding political conditions in India. **June 2** — Hindu-Muslim riots take place in Bombay. About 2,000 are arrested. **July 9** — Dr. Khare forms first Cong. Ministry in Central Provinces. **15** — C. Rajagopalachari forms Cong. Ministry in Madras. **20** — Congress Ministries are formed in several provinces. **30** — Andamans political prisoners go on hunger strike on rejection of their demands by Govt. **August 4** — Viceroy meets Gandhiji at New Delhi. **6** — Bihar Govt. orders repatriation of Bihar prisoners from Andamans. **27** — Congress members in Bengal Assembly stage walk out during debate on Andaman prisoners. **28** — Gandhiji urges prohibition in Indian States and provinces where Congress has majority. **29** — Gandhiji urges Andamans prisoners to give up fast. **September 5** —Dr. Khan Sahib forms Frontier Ministry. **17** — Bombay Govt. returns confiscated properties in connection with Civil Disobedience Movement. **30** — Jawaharlal Nehru seeks boycott of Japanese goods. **October 26** — Resolution demanding retention of *Bande Matram* as *National Anthem* of India is passed at Poona meeting. **31** — Jawaharlal Nehru, Subhash Chandra Bose and other Congress leaders deliver speeches at labour rally and urge people to unite and join Congress. **November 22** — Sir Jagdish Chandra Bose passes away. **December 5** — Bengal Government releases all women detenus unconditionally. **19** — Jayaprakash Narayan condemns Bihar Congress for putting ban on Kisan Sabha. **28** — All India Educational Conference discusses Gandhiji's Wardha Education Scheme in Calcutta.

1938

January 9 — China Day is observed all over India in response to an appeal by Congress President. **10** — Smt. Motilal Nehru passes away at Allahabad. **17** — Subhash Chandra Bose is elected president of Indian National Congress. Jayaprakash Narayan feels Gandhiji's ideas are old and need to be replaced by new ones. **25** — Subhash Chandra Bose and M. N. Roy discuss political situation in India. **February 5** — Gandhiji and Nehru write to M. A. Jinnah for definite statement on Muslim League's demands. **15** — Bihar and U.P. Ministries resign on issue of release of political prisoners. **19–21** — Subhash Chandra Bose delivers fifty-first presidential address of Indian National Congress at Haripura. **22** — Lord Linlithgow, Viceroy, makes statement on Constitutional crisis in U.P. and Bihar. **24** — Govind Vallabh Pant meets U.P. Governor regarding release of political prisoners. **March 2** — Maharaja of Indore allows temple entry to Harijans in his State. **April 5** → Sardar Vallabhbhai Patel launches prohibition campaign in Saran Dist. **6** — Jawaharlal Nehru writes to M. A. Jinnah on Congress policy towards Muslims and Muslim League. **8** — Gandhiji meets political prisoners in Calcutta presidency jail in connection with their release. **28** — Gandhiji meets M. A Jinnah at Bombay to discuss communal question. **May 1** — Congress members of Orissa Assembly pass resolution asking ministry to resign in protest against appointment of J. R. Dain as Acting Governor. **11-13** — Subhash Chandra Bose and M. A. Jinnah meet and discuss Hindu-Muslim question in Bombay. **20** — Gandhiji meets M. A. Jinnah in Bombay. **June 2** — Nehru sails for Europe. **11** — Subhash Chandra Bose, in meeting at Chittagong, appeals to youth to give up violence and strengthen Congress in work of attainment of Swaraj. **16** — C. Rajagopalachari opens All India Radio Station at Madras. **23** — Subhash Chandra Bose resigns leadership of Calcutta Congress Municipal party. **July 1** — Lord Halifax, Foreign Secretary for India, talks to Jawaharlal Nehru in London. **4** — Subhash Chandra Bose meets Khwaja Sir Nazimuddin, Home Minister of Bengal, and discusses question of Bengal detenus and political prisoners. **25** — Gandhiji writes to M. A. Jinnah on communal problems. Subhash Chandra Bose also writes to Jinnah. **26** — Congress Working Cttee. takes disciplinary action against Dr. N. B. Khare, C. P. Premier. **27** — R. S. Shukla is elected leader of. C. P Congress Assembly Party. **28** — R. S. Shukla forms C. P. Ministry. **August 16** — Subhash Chandra Bose releases for publication correspondence between him and Jinnah regarding Muslim settlement. **September 25** — Congress Working Cttee. in consultation with Gandhiji decides to take whatever action necessary in event of outbreak of hostilities. **October 2** — Congress Wkg. Cttee. expels Dr. N. B.

Khare from Congress. **24** — Congress President issues appeal for funds for relief work in flood affected areas of Bengal. **November 9** — Gandhiji concludes his N.W.F. Province tour and returns to Wardha. **17** — Jawaharlal Nehru returns to India. **25** — In public meeting at Jullundur Subhash Chandra Bose declares India will resort to Satyagraha if Federal Constitution is forced. **December 3** — In an article, Gandhiji appeals to Princes to cooperate with Congress. **26–28** — 26th Session of All India Muslim League meets at Patna under presidentship of M. A. Jinnah. **29** — All India Muslim Students' Conference meet at Patna under presidentship of Raja of Mahmudabad.

1939

January 20 — Maulana Abul Kalam Azad withdraws his claim from Presidentship of Tripura Session of Congress leaving field for Subhash Chandra Bose and Dr. Pattabhi Sitaramayya. **25** — Sardar Vallabhbhai Patel, after informal consultation with Gandhiji and Nehru at Bardoli, announces it is unnecessary to re-electt Subhash Chandra Bose for presidentship of Congress. Dr. Pattabhi Sitaramayya decides to contest Presidential election. **27** — Jayaprakash Narayan and Swami Sahajanand Saraswati issue a joint statement on presidential election supporting Subhash Chandra Bose. **28** — Gandhiji in an article in *Harijan* draws attention to increasing indiscipline of Congress men. He also deplores corruption among them. **29** — Subhash Chandra Bose is elected as Congress President. **31** — Gandhiji says that Subhash Chandra Bose has achieved a decisive victory over his opponent Dr. Pattabhi Sitaramayya. He adds defeat of Pattabhi Sitaramayya is really his (Gandhiji's)since he had supported his candidature. **February 1** — Seth Jamnalal Bajaj, leader of Prajamandal reaches Jaipur to defy the ban on his entry into State. **2** — Subhash Chandra Bose discusses with Jawaharlal Nehru at Shantiniketan implications of Congress Presidential election. **3** — Kasturba and Maniben Patel are arrested at Rajkot on their entering State to offer Satyagraha. **5** — Seth Jamnalal Bajaj is arrested at Likri Bansi Railway Stn. **7** — Seth Jamnalal Bajaj is released at frontier of Bharatpur State. **13** — Subhash Chandra Bose meets Gandhiji at Wardha. **14** — Jawaharlal Nehru in his presidential address to All India States People's Conference at Ludhiana says Congress will intervene if States check progress of people. **21** — Congress leaders meet Gandhiji at Wardha. **22** — Thirteen out of 15 Congress members of Working Committee resign. **26** — Subhash Chandra Bose accepts resignation of 13 Working Committee members. **27** — Gandhiji arrives at Rajkot on peace mission. **March 2** — Subhash Chandra Bose replies to charges against him, made by Working Cttee. members who resigned, and others. **2** — Gandhiji writes to Thakore of Rajkot intimating his plan of fast unto death from next day. **3** — Gandhiji starts fast at noon. **7** — Gandhiji breaks fast as settlement reached in Rajkot crisis by intervention of Viceroy. **8** — Subhash Chandra Bose presides over All India Congress Working Committee meeting at Tripura. **9** — AICC expresses confidence in old Wkg. Cttee. members and urges Subhash Chandra Bose to elect new members as per Gandhiji's wishes. **10** — Subhash Chandra Bose delivers 52nd presidential address of Indian National Congress at Vishnu Nagar, Tripura. **15** — Gandhiji meets Viceroy and continues to stay at Delhi. **23** — On Gandhiji's advice Travancore civil disobedience movement s suspended. **27** — Travancore civil disobedience prisoners are released. **April 2** — Sir Maurice Gwyer, Chief Justice of India, gives his verdict on Rajkot dispute. **9–10** — Annual session of All India Kisan Conference meets under presidentship of Acharya Narendra Dev at Gaya. **18** — Dr. Rabindranath Tagore and Sir P. C. Ray send telegrams to Gandhiji and Subhash Chandra Bose requesting them to meet and discuss existing problems of Congress. **24** — Congress meeting under presidentship of Subhash Chandra Bose reiterate Congress policy of non-participation in Imperialist War. **27** — Gandhiji and Subhash Chandra Bose meet at Sodepur, near Calcutta and discuss future programmes of Congress. **29** — A.I.C.C. meets at Wellingdon Square, Calcutta. Subhash Chandra Bose resigns presidentship of Indian National Congress. Nehru requests Subhash to withdraw his resignation. **30** — Dr. Rajendra Prasad is elected President of Indian National Congress. **May 1** — New Working Cttee members of Congress are elected. **3** — Subhash Chandra Bose decides to form Forward Block within Congress. **6** — U.N. Dhebar writes to Gandhiji on Rajkot concessions which Darbar Virawala is prepared to grant. **8** — Subhash Chandra Bose explains future programmes of Forward Bloc. **21** — Jawaharlal Nehru deprecates, in speech at Kanpur, formation of Forward Block by Subhash Chandra Bose. **24** — Ram Manohar Lohia is arrested at Calcutta. **25** — Gandhiji meets Thakore Sahib of Rajkot. **June 8** — Jayaprakash Narayan, Congress Socialist leader in Patna, criticises aims of 'Forward Block'. **18** — Subhash Chandra Bose is accorded great welcome in Peshawar. **26** — Congress premiers meet in Bombay during AICC session to discuss communal disharmony. **July 5** — Gandhiji leaves for his frontier tour accompanied by Mahadev Desai. **10** — Madura Meenakshi temple is thrown open to Harijans. **16** — Brihadeswara temple, Tanjore, is thrown open to Harijans. **17** — Subash Chandra Bose declares in a meeting at Zaveriwada, Ahmedabad, that Swaraj will be achieved in a short time. **18** — Subash Chandra Bose says ordinary Congressman is terrorised into silence by higher ranks of Congress leadership. **21** — Jawaharlal Nehru advises Indians at a Colombo meeting to cultivate goodwill of Ceylonese. **August 11** — AICC disqualifies Subhash Chandra Bose from presidentship of Bengal Provincial Congress Cttee. and debars him from membership of any elective Congress Cttee. for three years. **12** — Subhash Chandra Bose, in a statement, welcomes decision of AICC. **18** — Bengal Govt. releases political prisoners. **20** — Jawaharlal Nehru leaves for China by plane. **30** — Bengal Provincial Congress passes a resolution expressing confidence in Subhash Chandra Bose. **September 4** — Gandhiji and Viceroy discuss World War. **5** — Gandhiji in a statement says he supports Britain and France against Germany in War. **9** — Gandhiji, Subhash Chandra Bose, M. S. Aney, Acharya Narendra Dev and Jayaprakash Narayan attend Cong. Wkg. Cttee. meeting at Wardha by special invitation. **17–18** — Cong. Wkg. Cttee. and All India Muslim League pass resolution on war crisis. **26** — Gandhiji meets Viceroy at Simla. **October 4** — Viceroy meets Sardar Vallabhbhai Patel. **5** — Gandhiji and M. A. Jinnah meet Viceroy. **6** — Viceroy invites Subhash Chandra Bose for talks. **18** — Jinnah-Prasad correspondence regarding league's allegation against Congress Govt. is released. **23** — Parliamentary subcommittee instructs Congress Govt. to resign by October 31. **27** — Congress Ministry in Madras resigns. **31** — U.P. Ministry (Congress) tenders resignation. Viceroy decides to invite Congress and Muslim League for a joint discussion. Subhash Chandra Bose criticises some statements made by Gandhiji and Dr. Rajendra Prasad (Cong. Pres.). **November 1** — Gandhiji, Dr. Rajendra Prasad and M. A. Jinnah hold joint conference with Viceroy in Delhi. **4** — Viceroy meet Gandhiji and Rajendra Prasad in morning and M. A. Jinnah in afternoon. **5** — M. A. Jinnah in a statement says Musalmans of India depend upon their own inherent strength and will fight to last ditch for rights in spite of British or Congress. **19** — Gandhiji lays foundation stone of Kamla Nehru Memorial Hospital at Allahabad. **19–23** — Three-day session of Congress Working Cttee is held at Anand Bhavan, Allahabad. It passes a resolution on "War-Crisis." **December 1** — Sir Henry Gridney, President, Anglo-Indian Domiciled European Assn. appeals to Community to offer its services to King Emperor unconditionally at Calcutta meeting. **8** — M. A. Jinnah asks Muslims to observe December 21 as "Deliverance Day" from Congress regime. **9** — Gandhiji appeals to Jinnah to desist from observing Day of Deliverance and Thanksgiving in view of communal unity talks. **14** — Jawaharlal Nehru says, in a public meeting in Bombay, that communal problem in country is not communal, in the accepted term of sense, but purely political. **22** — The Congress Working Cttee. at its session at Wardha criticises statement of Secretary of State for India regarding final settlement of Indian affairs. B. G. Kher and Mirza Ismail open All-India Swadeshi exhibition in Madras. **24** Sikandar Hyat Khan meets Jinnah at Bombay. **26** — Sir Stafford Cripps leaves India for Burma. Sardar Patel denounces Jinnah's appeal to Muslims while addressing a gathering in Bombay. **27** — Jawhaharlal Nehru inaugurates the fifteenth sessions of the All India Educational Conference at Lucknow. **27–29** — Dr. R. Paranjpe delivers presidential address at the 21st Session of National Liberal Federation.

1940

January 13 — C. Rajagopalachari meets Gandhiji at Sevagram. **15** — Subhash Chandra Bose issues instructions to members of the Forward Bloc on how to observe "Independence Day." **16** — Jawaharlal Nehru issues circular regarding the celebration of 'Independence Day.' **26** — Independence Day is celebrated all over India. **30** — Subhash Chandra Bose criticises Congress High Command in a meeting at Calcutta. **February 1** — Dr. Rajendra Prasad, Cong. President, writes to Sarat Chandra Bose regarding defiance of Bengal Cong. Cttee. **11** — Jawaharlal Nehru inaugurates Maharashtra Congress Conference in Bombay and appeals to youth to discard provincialism. **15** — In Congress presidential elections Maulana Abul Kalam Azad (1841 votes) is elected against M. A. Roy (981 votes). **March 7** — Jayaprakash Narayan appeals to leftists to maintain unity in the Congress. **11** — Maharaja Jam Sahib of Jamnagar, Chancellor of Chamber of Princes, makes a statement on the negotiations for revision of Draft Instrument of Accession. **17–19** — Maulana Abul Kalam Azad delivers 53rd presidential address of Indian National Congress at Ramgarh. **22–24** M. A. Jinnah in his presidential address at Lahore Session of All India Muslim League demands for a separate Homeland for Muslims. and passes resolution seeking creation of Pakistan. **April 5** — C. F. Andrews passes away in a nursing home at Calcutta. **May 13** — L. S. Amery is appointed Secretary of State for India. **June 1** — Jawaharlal Nehru, at a Srinagar meeting, deprecates idea of dividing India into Hindu and Muslim States. **10** — Jawaharlal Nehru outlines position of Indian States in free India as visualised by Congress. **17–21** — Working Committee of Congress passes resolution on "War-Crisis". **29** — Viceroy meets Gandhiji at Simla. After talk Gandhiji writes in *Harijan* that he is "both happy and unhappy". **July 1** — Gandhiji appeals to every Briton to accept method of non-violence instead of war with Hitler. **2** — Subhash Chandra Bose is arrested at his Calcutta residence. Sardar Sardul Singh Caveeshar is nominated as president of the All India Forward Bloc. **3–7** — Gandhiji attends the Cong. Working Cttees. meetings in Delhi where resolution demanding complete independence for India is passed. **7** — Congress Working Cttee deputes Bhulabhai Desai and Asaf Ali to visit Waziristan, and study problems of Wazirs arising out of tribal raids. **21** — At Wkg. Cttee. meeting of Congress at Poona C. Rajagopalachari urges formation of National Govt. at Centre. **August 8** — Viceroy, Lord Linlithgow, makes statement on expansion of Governor's Executive Council and establishment of a War Advisory Council. **14** — Viceroy writes to M. A. Jinnah regarding establishment of "War Advisory Council." **26** — Congress President issues circular to Provincial Congress Cttees. asking them to hold protest meetings against Viceregal move to establish War Advisory Council. **September 2** — Muslim League Working Cttee. welcomes Viceroy's proposal to establish War Advisory Council. **15** — In a meeting of All India Congress Cttee at Bombay Maulana Abul Kalam Azad announces Gandhiji's agreement to lead Congress. **18** — Congress Working Cttee. meeting at Bombay passes resolution on suspension of Civil Disobedience. **25** — L. S. Amery, Secretary of State for India, hopes for establishing working arrangement in India with Gandhiji. **October 6** — Mahadev Desai, Secretary to Gandhiji, meets Subhash Chandra Bose. **13** — Working Cttee's session at Wardha approves Gandhiji's plan for individual Civil Disobedience by a limited number of satyarahis chosen by him. **17** — Gandhiji selects Vinoba Bhave as his first satyagrahi for individual satyagraha movement. Vinoba Bhave in a meeting at Panam advises audience not to help British in war efforts. Vinoba is arrested. **25** — Govt. of India issues restrictive orders under Defence of India Rules. **31** — Jawaharlal Nehru is arrested at Chhiski (Allahabad) on his return from Wardha after meeting Gandhiji. **November 8** — *News Chronicle*, London, urges immediate release of Jawaharlal Nehru. **13** — Gandhiji prepares list of 1,500 congressmen for individual civil disobedience. **17** — Sardar Vallabhbhai Patel is arrested and taken to Sabarmati jail. **24** — Govind Vallabh Pant is arrested at Haldwani. **25** — Govind Vallabh Pant is sentenced to one year S. I. Maulana Abul Kalam Azad announces a Hindu-Muslim Unity Board at Karachi. **December 1** — Sarojini Naidu and Bhulabhai Desai are arrested in Bombay. **2** — Dr. Prafulla Chandra Ghose (Wkg. Cttee. Mem.), Kumari Chandra Jaina (Midnapur Dist. Cong. Pres.) are arrested and sentenced to 1 year S.I. under D.I.R. **3** — Bubesu Sambamurti in Madras and K. M. Munshi in Bombay are arrested. **5** — Subhash Chandra Bose is released. **9** — Smt. Vijayalakshmi Pandit, Nityananda Kanungo, Asaf Ali, Dr. & Smt. Subbaroyan are arrested and sentenced each for six months' S.I. **11** — Smt. Sarojini Naidu is released from jail for health reasons. **12**— Subhash Chandra Bose issues statement in connection with disciplinary action taken against Sarat Chandra Bose by Congress executive.

1941

January 3 — Maulana Abul Kalam Azad is arrested at Allahabad on his way to Calcutta from Delhi. **8** — Maulana Abul Kalam Azad is charged under DIR having delivered prejudicial speech at Allahabad and sentenced to 18 months S.I. **27** — Subhash Chandra Bose is missing from home in Calcutta. A warrant of arrest is issued by the Addl. Chief Presidency Magistrate, Calcutta. **31** — M. N. Roy appeals to Gandhiji to persuade followers to behave less violently and more truthfully. **February 3** — Addl. Chief Presidency Magistrate, Calcutta, orders arrest of Subhash Chandra Bose and attachment of his properties. **20** — Gandhiji declines Congress participation in Central government reorganisation until Congress demands are conceded. **28** — Gandhiji performs opening ceremony of Kamala Nehru Memorial Hospital at Allahabad. **March 2** — Subhash Chandra Bose reaches Germany. **13** — Non-parties political conference issues proposals on establishment of "War Advisory Council." **April 22** — L. S. Amery makes statement on proposals of establishing

"War Advisory Council." **May 19** — S. Srinivasa Iyengar, *ex*-Pres. of Indian National Congress passes away at Mylapore, Madras. **June 4** — Pt. Madan Mohan Malaviya addresses the Conference of Hindu leaders at Banares regarding communal situation in India. **July 18** — Gandhiji discusses with Christian leaders minorities question of India. **August 7** — Rabindranath Tagore passes away in his old *Jorasanko* house. **12** — Pt. Madan Mohan Malviya, in a statement from Banaras, recommends holding of public meetings on August 17 to protest against communal award and separate communal electorates. **September 16** — Bhulabhai Desai is released from prison for reasons of health. **19** — Dr. Satyapal resigns seat in Cental Legislature. **26** — Communal riots in Dacca and Bombay. **November 8** — Smt. Vijayalakshmi Pandit inaugurates Patna Dist. Political Conference at Patna and appeals to follow programmes outlined by Gandhiji. **14** — Gandhiji appeals to Govt. on Jayaprakash Narayan's fast in Deoli. **December** — Secret station "Azad Hind Radio" is opened in Germany. **3** — Jawaharlal Nehru and Maulana Azad are released from jail. **5** — Jawaharlal Nehru says, in statement from Lucknow, that "Call of India continues to resound our ears and infuses new blood in our veins." **30** — Congress Working Cttee., at session in Bardoli, passes resolution to relieve Gandhiji from leadership of Congress.

1942

January 3 — Jawaharlal Nehru while addressing meeting in Bombay says we should have no sympathy with Hitler. Rajendra Prasad, Sardar Vallabhbhai Patel, Acharya J. B. Kripalani and Dr. Profulla Chandra Ghosh also issue statements regarding Congress attitude towards war. **February 9** — Marshal Chiang Kai-shek and Madam Chiang Kai-shek arrive in Delhi. **11** — Maulana Azad and Jawaharlal Nehru meet Marshal Chiang Kai-shek and Madam Chiang Kai-shek in Delhi. Seth Jamna Lal Bajaj, treasurer and member of the Congress Working Cttee passes away at Wardha. **17** — Sir H. P. Mody, N. R. Sarkar and M. S. Aney resign from the Viceroy's Council. **18** — Marshal Chiang Kai-shek meets Gandhiji. **March 22** — Maulana Azad addressing concluding session of Jamiat-ul-ulema Hind at Laho readvises Muslims not to stand in way of freedom of country by presenting different schemes. **23** — Sir Stafford Cripps at press conference in New Delhi says he is great admirer of India and that he wishes to settle all political problems. **25** — Sir Stafford Cripps meets Maulana Azad in New Delhi. **27** — Gandhiji meets Sir Stafford Cripps in New Delhi. **30** — Sir Stafford Cripps, in broadcast, appeals to people of India to get together and form their own constitution. **April 2** — All India Muslim League passes resolution on Cripps' proposal. **6** — Jawaharlal Nehru reports to Congress Working Cttee. about his talk with Col. Johnson, personal envoy of President Roosevelt. **7** — Sir Stafford Cripps puts forward first formula on Defence in his letter to Maulana Azad. — Subhash Chandra Bose claims Cripps Mission is a failure. **29** to **May 2** — AICC rejects C. Rajagopalachari's resolution on self-determination of Muslims. **May 3** — Sir Stafford Cripps in broadcasts from London says India will have complete freedom soon after war. **June 5** — Jawaharlal Nehru appeals for funds to help *National Herald*, Lucknow. **July 5** — Mahatma Gandhi speaks to Maulana Azad about "Quit India Movement" at Working Cttee. meeting at Wardha. **14** — Congress Working Cttee. releases 700-word resolution on political situation which is described as "Quit India" resolution. **August 8** — Jawaharlal Nehru speaks on Cripps' Mission and Quit India movement at AICC meeting in Bombay. **9** — Gandhiji, Maulana Azad, Jawaharlal Nehru, Vallabhbhai Patel and other prominent congressmen including members of Working Cttee. and President and Secretary of Provincial Congress Cttee. are arrested in Bombay and taken to Poona by Special train. **10** — In a police lathi charge on students' procession about 50 students of Banaras Hindu University get injured. Subhash Chandra Bose republishes his book *The Indian Struggle* in Malaya. **12** — At Assi the police open fire on students' procession killing one and injuring many. S. Satyamurthy is arrested at Arkonam. **15** — Gandhiji writes to Chiang Kai-shek. Mahadev Desai passes away in Aga Khan Palace prison. **16-20** — Working Cttee. of All India Muslim League passes resolution on "Quit India" resolution of Congress. **17** — V. V. Giri, Madras Labour Minister and President of All India Trade Union Congress, is arrested under Defence of India Act. **21** — Sir C. P. Ramaswami Aiyar resigns from Viceroy's Council. **September 7** — Smt. Kamladevi Chattopadhyaya is arrested at Bangalore under DIR. **15** — Smt. Rameswari Nehru, Vice-Pres. of the Harijan Sewak Sangh, and three other lady congress workers are arrested at Lahore under DIR. **29** — Sardar J. J. Singh of India League of America endorses Gandhiji's proposal asking Pres. Roosevelt to intervene in British India dispute. **October 18** — L. S. Amery, Secretary of State for India, reiterates Britain's pledge of freedom to India. **November 12** — C. Rajagopalachari meets Viceroy and gives interview to Indian and Foreign correspondents. **16** — Dr. Shayama Prasad Mookerjee, Finance Minister of Bengal, resigns.

1943

February — Subhash Chandra Bose arrives in Tokyo. **10** — Gandhiji decides on 21-day fast. **19** — Doctos attending on Gandhiji say his condition causes anxiety. Numerous appeals sent to Churchill, Amery and Viceroy for Gandhiji's release. **20** — All Party Leaders' Conference meets at Delhi and passes resolution urging unconditional release of Gandhiji. **26** — Gandhiji meets C. Rajagopalachari. **March 3** — Gandhii breaks fast at 9–34 A.M. **April 21** — Commonwealth Party in England urges resumption of negotiations and release of Gandhiji unconditionally. **19** — In a broadcast Subhash Chandra Bose asks Indians to trust him. **July 4** — Subhash Chandra Bose accepts allegiance to Indian National Army. **16** — Bengal Legislative Council passes resolution urging release of Gandhiji and members of Congress Working Cttee. **August 8** — Subhash Chandra Bose assumes personal command of the I.N.A. **October 21** — Subhash Chandra Bose inaugurates Provincial Government of Free India in Cathay Cinema at Singapore. **23** — Provisional Govt. of Free India declares War on Britain and U.S.A. **November 25** — Smt. Vijayalakshmi Pandit, President, All India Women's Conference, speaks about devastating flood and food crisis in Midnapur Dist. **December 29** — Japanese Admiral at Port Blair receives Subhash Chandra Bose in Andaman Islands.

1944

February 17 — Viceroy, Lord Wavell, addresses Central Legislature on problem of Indian Unity. **20** — Bombay Govt., in its communique, says Gandhiji's condition has been deteriorating and is very grave. **22** — Kasturba Gandhi passes away in Aga Khan Palace prison. **March 8** — Under leadership of Pt. Madan Mohan Malaviya about forty prominent leaders decide to raise fund in memory of Kasturba and present it to Gandhiji on 75th birthday. **May 5** — Leaders appeal to Viceroy to release Gandhiji. **6** — A New Delhi press communique announces release of Gandhiji unconditionally on medical grounds. Gandhiji is released at 8 A.M. **19** — Gandhiji visits Bombay. **29** — Subhash Chandra Bose collects about Rs. 5 million in cash and ornaments at public meeting in Singapore. **June 28** — Gandhiji addresses Maharashtra Congressmen in Poona.

July 1 — Viceroy refuses interview to Gandhiji. **10** — C. Rajagopalachari publishes his formula to end Congress-League deadlock. **28** — Gandhiji deplores underground activities and sabotage works. **30** — Gandhiji supports C. Rajagopalachari's formula (C. R. Formula). **August 14** — Pt. Madan Mohan Malaviya says that he is entirely opposed to idea of Pakistan. **September 9, 11, 15, 19, 24 and 27** — Gandhiji-Jinnah meetings and discussions take place in Bombay. **October 23** — Subhash Chandra Bose leaves Singapore for Tokyo to attend Greater East Asia Conference. **November 26** — Gandhiji signs Kasturba Memorial Trust Deed.

1945

March 6 — Bertrand Russell advocates independence for India at meeting in Cambridge University. **May 21** — Subhash Chandra Bose appeals to Moscow to help India's cause. **30** — Nawabzada Liaqat Ali Khan speaks on Rajagopalachari's formula on Pakistan. **June 15** — Maulana Azad, Jawaharlal Nehru and others are released. **20** — Jawaharlal Nehru and Viceroy meet at Simla for talks. **21** — Congress Working Cttee. meets at Bombay to discuss Lord Wavell's (Viceroy's) proposals (Wavell Plan). **23** — Jawaharlal Nehru says that Wavell Plan is in nature of an interim arrangement to organise a change. **30** — Gandhiji is surprised at M. A. Jinnah's request to accept Pakistan first. **July 9** — Viceroy writes to M. A. Jinnah. **11** — Viceroy meets Gandhiji. **12** — Jawaharlal Nehru explains Congress attitude on Wavell Plan. **September 12–18** — Congress Working Cttee. passes resolution on United India and self-determination. **19** — Viceroy, Lord Wavell, speaks on general elections and plans for summoning a constitution making body.

1946

January 6 — Sardar Vallabhbhai Patel in meeting, referring to INA trial, at Bombay, says that any subject country has right to organise its own army and overthrow ruling power. **29** — Jawaharlal Nehru in meeting at Allahabad condemns attack on Communist Headquarters in Bombay. **31** — Members of British parliamentary delegation meet Jawaharlal Nehru at Allahabad. **February 10** — Gandhiji's *Harijan* Weekly resumes publication after break of 42 months. **23** — Maulana Azad, in a telegram to British Govt., asks British people to abandon imperialism in India. **March 4** — Jawaharlal Nehru issues statement at Allahabad in connection with strike of Army signalmen and others at Jabalpur. **15** — Earl Attlee, in statement to House of Commons, admits that situation in India has completely changed and requires new approach to solve it. **April 4** — British Cabinet Mission meets M. A. Jinnah and Sir Gulam Hussain Hidayatulla, Premier of Sind. **5** — British Cabinet Mission meet Sikh leaders. **10** — Sardar Vallabhbhai Patel says Congress cannot accept Muslim League's proposal of creating new State of Pakistan. **14** — All India Hindu Mahasabha submits memorandum to British Cabinet Mission. **24** — Herbert Hoover, a former U.S. President, meets Gandhiji and Jawaharlal Nehru. **28** — Congress Working Cttee. reviews an invitation extended by British Cabinet Mission to its President, Maulana Azad, for joint meeting in New Delhi with M. A. Jinnah. **May 7** — Gandhiji and M. A. Jinnah meet Viceroy and Sir Stafford Cripps in Simla. **9** — Jawaharlal Nehru is elected president of the Indian National Congress for fourth time. Jawaharlal Nehru meets M. A. Jinnah at Simla. **12** — Three-member British Cabinet Mission makes statement on position of Princely States in Independent India and their relations with British Crown. **24** — Congress Working Cttee. passes resolution on British Cabinet Mission's proposals stating it is unable to reach final opinion in absence of full clarification of proposed Provincial Govt. **26** — Jawaharlal Nehru meets Viceroy in New Delhi. **June 6** — Council of All India Muslim League passes resolution on formation of an Interim Govt. **16** — All India Cttee. of Hindu Mahasabha passes resolution on Cabinet Mission Plan. Cabinet Mission issues statement on formation of Interim Govt. **19** — Congress decides to join Interim Govt. under certain conditions. **20** — Jawaharlal Nehru is arrested at Domel for defying ban on his entry to Kashmir. **21** — Jawaharlal Nehru is released. **27** — M. A. Jinnah makes statement on acceptance of Cabinet Mission Plan by the Congress. **29** — Members of caretaker Govt. are announced. Cabinet Mission leaves for England. **July 3** — Viceroy accepts resignations of all members of his Executive Council on eve of formation of new caretaker Govt. **6** — Jawaharlal Nehru takes charge of Congress presidentship from Maulana Azad at meeting of AICC in Bombay. **8** — Congress decides to organise a Congress Volunteer Corps under leadership of Major Gen. Shah Nawaz Khan of I.N.A. **22** — Viceroy writes to M. A. Jinnah regarding formation of Interim Govt. **27** — Muslim League Council at its meeting in Bombay passes resolution rejecting Cabinet Mission Plan and reiterates demand for Pakistan. **31** — M. A. Jinnah replies to Viceroy's letter. **August 14** — Jawaharlal Nehru invites M. A. Jinnah to join Interim Govt. **18** — Jawaharlal Nehru submits names to Viceroy for inclusion in Interim Govt. **24** — Viceroy announces formation of Interim Govt. at Centre and appeals to Muslim League to join Interim Govt. **September 1** — Viceroy announces protfolios of new Interim Govt. **2** — Interim Govt. assumes office. **7** — Jawaharlal Nehru, in his first broadcast as Vice-President of Interim Govt. explains free India's role in world affairs. Gandhiji, in his prayer speech, appeals to M. A. Jinnah to give up violence and allow Hindus and Muslims to come closer. **14** — Dr. S. Radhakrishnan unveils Gandhiji's statue at Karachi. **16** — Wkg. Cttee of Forward Block meets at Delhi and asserts that Subhash Chandra Bose is alive and will reappear at opportune time. **20** — Achyut Patwardhan elected Gen. Secretary of Cong. Socialist Party in place of Jayaprakash Narayan. **22** — AICC meets at Delhi. Jawaharlal Nehru resigns Congress presidentship. **25** — Viceroy meets Jawaharlal Nehru and Gandhiji. **October 9** — Dr. Ram Monohar Lohia released from prison. An order banning his entry into Goa is served on him. **25** — Smt. Vijayalakshmi Pandit defines India's policy in U.N. General Assembly which opposes racialism and exploitation. Names of Muslim League members of Interim Govt. are announced. **November 12** — Pt. Madan Mohan Malaviya passes away in Banaras at age of 85. **23-24** — 54th plenary session of Indian National Congress meets at Pyarelal Nagar, Meerut under presidentship of Acharya J. B. Kripalani. **December 1** — Viceroy Lord Wavell accompanied by Jawaharlal Nehru, M. A. Jinnah, Liaqat Ali Khan and Sardar Baldev Singh leaves for London by air to attend London Conference. **8** — Jawaharlal Nehru and Sardar Baldev Singh return to Delhi.

1947

January 6 — Sarat Chandra Bose resigns from Congress. **7** — Gandhiji appeals to Muslims to be tolerant. **15** — Maulana Azad joins Interim Govt. as Education Member. **29** — Chamber of Princes accept recommendations of British cabinet on position of princely states in Independent India and their relations with British Crown. **February 10** — Jawaharlal Nehru in statement says Govt. is convinced Subhash Chandra Bose is dead as a result of injuries sustained in aircrash. **20** — Count Attlee, British Prime Minister, announces in House of Commons target date for transfer of power. **24** — M. A. Jinnah insists on formation of Pakistan. Gandhiji calls for Hindu-Muslim Unity. **March 7** — Jayaprakash Narayan resigns from

Congress Working Cttee. **12** — Gandhiji starts tour of riot affected areas of Bihar. **15–16** — Jawaharlal Nehru accompanied by Sardar Swaran Singh and Dr. Gopichand Bhargava visits riot affected areas of Rawalpindi, and make an aerial tour of Multan and Amritsar. **31** — Gandhiji arrives in Delhi for talks with Viceroy, Lord Mountbatten. **April 2** — Jawaharlal Nehru elected president in Provincial General Council of Asian Relations Conference. Gandhiji while addressing the Conference says that East must conquer West by message of truth and love. **5** — Gandhiji makes appeal to Hindus not to harbour ill-will against Muslim fanatics. **14** — While inaugurating 7th Session of All India Manufacturers' Organisation Jawaharlal Nehru stresses need for rapid industrialisation of India. **15** — Gandhiji and M. A. Jinnah issue joint statement denouncing violence. **17** — Acharya J. B. Kripalani, Cong. President, meets Lord Mountbatten. **28** — Dr. Rajendra Prasad while addressing Constituent Assembly, indicates House should be prepared for division of India including some provinces. **30** — Constituent Assembly votes for abolition of titles by Indian Union. **May 1–4** — Under presidentship of Acharya J. B. Kripalani Congress Working Cttee meeting is held at Delhi. **8** — Jayaprakash Narayan arrested in Hyderabad and externed from State. **24** — Jawaharlal Nehru says M. A. Jinnah's demand for a corridor through India is unrealistic. **27** — Acharya J. B. Kripalani says in case of a division of India it should not be carried out by British. **June 3** — His Majesty's Govt. issues a statement on its final decision regarding transfer of power. Clement Attlee speaks in House of Commons outlining partition of India and date of transfer of power. **6** — Gandhiji meets Viceroy and discusses with him question of partition of Punjab and Bengal. **15** — AICC passes resolution accepting proposals for partition and transfer of power. **July 10** — Clement Attlee makes a speech in House of Commons on Indian Independence Bill. **18** — British Parliament passes an Act to set up dominions of India and Pakistan. **27** — Gandhiji requests Princes to join Indian Union. **August 8** — Nizam of Hyderabad informs Crown representative of State that he will watch relations between India and Pakistan before entering into relation with either Dominion. **12** — U.N. Asst. Secretary General for Legal Affairs brings out a memorandum on effect of Indian Independence Act, 1947. **12** — Viceroy informs Nizam that Govt. of India will not worry him. Four Jt. Councils were set up to consider matters relating to partitioning of India. A tribunal is also set up to make awards in respect of partition disputes **12–13** — Sir Cyril Radcliffe, Chairman, Boundary Commission, publishes awards on Pakistan boundaries in Bengal, Assam and Punjab. **14** — Constituent Assembly passes resolutions on assumption of power and endorses appointment of Lord Mountbatten as Governor-General of Dominion of India; Lord Mountbatten inaugurates Dominion of Pakistan. **15** — Indian Dominion born at 12 midnight. Jawaharlal Nehru broadcasts as first Prime Minister of India from All India Radio, Delhi. Lord Mountbatten as Governor-General addresses Constituent Assembly. **18** — Netaji Bose is killed in air-crash in Taiwan. **31** — Jawaharlal Nehru visits riot affected areas in Punjab with Liaqat Ali Khan and Sardar Patel. **September 26** — Gandhiji appeals to safeguard rights of minorities. **27** — **October 1** — Congress Working Cttee. meets at Delhi. Archarya J. B. Kripalani presides. **18** — Kashmir Govt. complains to Pakistan Govt. of hostile acts. **26** — Maharaja of Kashmir requests Indian Govt.'s help against Pakistan raiders and offers accession of State to India. **27** — Govt. of India accepts offer of accession and sends troops to Kashmir. **30** — Pakistan Govt. blames Kashmir Govt. for Pathan attacks and refuses to recognise Kashmir's accession to India. **November 8** — Diwan of Junagadh seeks India's help to maintain law and order **9** — Govt. of India intimates Pakistan about request made by Diwan of Junagadh and takes over administration. **14** — Pakistan declares India as a foreign territory for export and import purposes. **29** — Indian Govt. accepts standstill agreement of Nizam of Hyderabad. **December 12–30** — Letters between Prime Ministers of India and Pakistan are exchanged on Kashmir question. Various types of merger agreements are executed by States. **20** — Govt. of India declares Pakistan as a foreign territory for export of raw jute products.

1948

January 1 — Indian Govt. urges U.N. Security Council to stop Pakistan from assisting raiders in Kashmir. **15** — Pakistan Govt. submits documents on Kashmir to Security Council; N. G. Ayyangar, Permanent representative of India to Security Council, suggests a plebiscite in Kashmir under international auspices. **20** — A bomb explodes near Gandhiji during his prayer meeting in Birla House, New Delhi. U.N. Security Council appoints three-man Commission to settle Kashmir question. **30** — Gandhiji shot dead by Nathuram Vinayak Godse, a member of Rastriya Swayam Sevak Sangh, at 5·10 P.M. just before his evening prayer meeting in Birla House, New Delhi. **February 4** — Indian Govt. bans Rashtriya Swayam Sevak Sangh after assassination of Gandhiji. **8** — Indian Govt. declares Muslim National Guard unlawful. **12** — Immersion of Gandhiji's ashes in holy confluence at Allahabad is witnessed by million people. **14–15** — Hindu Mahasabha passes resolution indicating its withdrawal from political works. **March 5** — Maharaja of Kashmir announces establishment of popular interim Govt. in State. **25** — AICC office is moved from Swaraj Bhavan, Allahabad to 7, Jantar Mantar Rd., New Delhi. **April 12** — Jawaharlal Nehru lays foundation stone of Hirakud Dam. Jawaharlal Nehru lays foundation stone of New capital of Orissa at Bhubaneshwar. **15–18** — Agreement with Pakistan on minority communities signed. **21** — U.N. Security Council in a resolution asks India and Pakistan to withdraw their forces from Kashmir. **May 4** — Interim agreement on Canal waters signed with Pakistan. **26** — An agreement with Pakistan on supply of essential commodities signed. **27** — Mahatma Gandhi murder case hearing starts in Red Fort, Delhi. **June 8** — French Govt. announces future of French settlements in India. **9** — Talks on accession of Hyderabad break down. **20** — Lord Mountbatten leaves India. **21** — C. Rajagopalachari assumes charge as Governor General of India. **July 1** — Ordinance bans transfer of securities held by Nizam of Hyderabad. **2** — Govt. of India bans export of Gold or currency from Hyderabad. **9** — Agreement on sterling balances between India and England signed. **August 20** — Jawaharlal Nehru addresses first meeting of Atomic Energy Commission. **September 9** — M. A. Jinnah passes away. **11** — Nizam rejects India Govt.'s terms. **12** — Indian troops enter Hyderabad territory. **17** — Nizam orders cease fire; Hyderabad army lays down arms. **18** — Hyderabad comes under military administration with Maj. Gen. Choudhury as Military Governor. **20** — Nizam orders withdrawal of case from U.N. **October 5** — Jawaharlal Nehru leaves for London to attend Commonwealth Prime Ministers' Conference. **24** — Jawaharlal Nehru's talk with Earl Attlee and Liaqat Ali Khan on Kashmir breaks down. **November 3** — Jawaharlal Nehru addresses special session of U.N. General Assembly in Paris. **4** — Dr. B. R. Ambedkar, Chairman, Drafting Cttee., presents Draft Constitution to Constituent Assembly. **8** — Nathuram Godse confesses to murder of Mahatma Gandhi but denies any conspiracy. **22** — Cyclone in Bombay paralyses city. **24** — Dr. Shyama Prasad

Mukherjee resigns membership of Mahasabha executive. **29** — Constituent Assembly adopts article on equality and abolition of untouchability. **December 3** — R. R. Diwakar is appointed Minister of Information. **4** — General Cariappa appointed Commander-in-Chief of Indian Forces. **17** — Kashmir Plebiscite Commission Panel arrives. **18–19** — 55th Congress Session opens in Jaipur under presidentship of Dr. Pattabhi Sitaramayya. **23** — Govt. of India issues a communique on stoppage of Dutch flight across India.

1949

January 1 — Govt. of India orders ceasefire in Kashmir. **20** — Sir Tej Bahadur Sapru passes away. **February 10** — Nathuram Godse and accomplice are sentenced to death for murder of Gandhiji. **April 15** — United Nations Commission for India and Pakistan sends proposals regarding cease-fire line and withdrawal of troops by India and Pakistan. **May 11** — Cttee. on Minorities submits report. **21–22** — Congress Wkg. Cttee. meets at Dehradun. **June 24** — Indo-Pakistani trade agreement signed. **26** — Talks between India and Pakistan on evacuee property end in deadlock at Karachi. **July 10** — Indo-French communique on Chandernagore referendum issued. **12** — Govt. of India withdraws ban on Rashtriya Swayam Sevak Sangh. **27** — Military representatives of India and Pakistan sign agreement demarcating cease-fire line. **August 26** — UNCIP suggests Kashmir issue be solved through arbitration. **September 9** — Indian Govt. disagrees to principle of arbitration for Kashmir. **October 7** — Jawaharlal Nehru on good-will visit to U.S.A. **November 7** — Governor General rejects mercy petitions of Godse and Apte, sentenced to death in Mahatma Gandhi murder case. **15** — Godse and Apte are executed at Ambala. **23** — Nizam proclaims extension of Indian Constitution to Hyderabad. **24–25** — Raj Pramukhs of Travancore-Cochin and Mysore proclaim extension of Indian Constitution to their States. **25** — Maharaja of Kashmir extends Indian Constitution as applicable to Jammu and Kashmir. **26** — Third reading of Constitution Bill completed. **30** — Govt. of India issues communique on India's decision to establish diplomatic relations with new Govt. of China.

1950

January 4 — Friendship treaty between India and Afghanistan signed. **14** — Nehru attends Commonwealth Foreign Ministers' Conference in Colombo. **18** — Jawaharlal Nehru suggests No-war Pact between India and Pakistan. **19** — Rail traffic between India and Pakistan is suspended. Nehru lays foundation stone of National Stadium, New Delhi. **24** — Dr. Rajendra Prasad elected President of Indian Republic. **26** — India officially proclaimed as Sovereign Democratic Republic. **31** — Dr. Rajendra Prasad, President of India, delivers an address to Parliament. **February 7** — Indian "White Paper" on disruption of trade and rail traffic with Pakistan issued. **20** — Sarat Chandra Bose passes away. **March 17** — Jawaharlal Nehru declares in Parliament India is gravely concerned with plight of Hindus in East Pakistan. **April 2** — Jawaharlal Nehru and Liaqat Ali Khan (Pakistan Prime Minister) meet at Delhi. **8** — Indo-Pakistan Pact ensuring protection to minorities signed. **14** — Sri Ramana Maharshi passes away. **15** — Dr. S. P. Mookherjee (Min. for Industries) and K. C. Neogy (Min. for Commerce) resign. **25–26** — Chief Ministers of States and P.C.C. Presidents meet at a Conference in New Delhi to formulate economic programme and devise methods to implement it. **26** — Jawaharlal Nehru visits Pakistan. **May 2** — Chandernagore, a French Settlement in India, taken over by Govt. of India. **27** — Sir Owen Dixon, U.N. Mediator in Kashmir Dispute arrives in Delhi. 'Kirti Mandir' a memorial to Mahatma Gandhi inaugurated by Sardar Patel at Porbandar. **July 1** — India recognises Communist China. **2** — Socialist leader Yusuf Meherally passes away, **August 5** — Chief Minister of Assam, Gopinath Bardoloi. expires. **15** — New currency coins introduced in India. **16** — Earthquake shocks in Assam and eastern parts of India : worst in last 50 yrs. **21** — Dixon mission in Kashmir reports failure. **September 20–21** — 56th Congress session, opens at Nasik. Purushottamdas Tandon presides. **October 3** — Jawaharlal Nehru inaugurates eleventh Conference of Institute of Pacific Relations at Lucknow. **November 1** — President Dr. Rajendra Prasad, inaugurates Chittaranjan Locomotive Works. **December 5** — Sri Aurobindo Ghosh expires. India signs new treaty with Sikkim on India's defence responsibility extending to Tibetan borders. Cong. Wkg. Cttee. meets at Sardar Vallabhbhai Patel's residence under presidentship of Purushottamdas Tandon, **15** — Sardar Vallabhbhai Patel passes away. **26** — Central Cabinet reorganised ; C. Rajagopalachari becomes Minister for Home Affairs.

1951

January 2 — Jawaharlal Nehru inaugurates Indian Science Conference at Bangalore. **February 9** — First Census enumeration in Independent India starts. **19** — Indo-Pakistan trade talks begin in Karachi. **25** — Indo-Pakistan trade agreement is signed. **27** — India accepts Pakistan Rupee at par value. **28** — Debate on Kashmir in Security Council begins. **March 1** — India rejects joint U.S. — U.K. plan for Kashmir settlement. **17** — Bakshi Ghulam Mohammed opposes arbitration on Kashmir. **28** — Congress of Cultural Freedom meets at Bombay, under Jayaprakash Narayan. **April 13** — Govt. of India withdraws titles and privileges of Maharaja of Baroda. **21** — Parliament passes Jallianwala Memorial Bill. **24** — Sri Aurobindo Memorial convention meets at Pondicherry. **May 17** — Acharya J. B. Kripalani resigns from Congress. **20** — T. Prakasam resigns from Congress. **27** — Dr. Rajendra Prasad presents Presidents' Colours to Indian Navy in Bombay. **June 11** — Jawaharlal Nehru charges U.S. and U.K. with aiding Pakistan in Kashmir issue. **16** — Dr. Gopichand Bhargawa resigns Chief Ministership of Punjab. — Acharya J. B. Kripalani presides over new Praja Socialist Party convention at Patna. **21** — India pleads for Communist China's membership in UNESCO. **16** — Delhi-Moscow direct phone link inaugurated. **July 3** — India protests to U.N. Security Council against Pakistan raids in Kashmir. **8** — Dr. Graham, U.N. representative for Kashmir, visits Srinagar. **18** — Rafi Ahmed Kidwai and Ajit Prasad Jain resigns from Central Cabinet. **24** — Jawaharlal Nehru demands "No-War" assurance from Pakistan. **26** — Liaqat Ali Khan invites Jawaharlal Nehru to Karachi for talks. **August 18** — Jayaprakash Narayan and Railway Minister discuss Railwaymen's demands. **31** — C. Rajagopalachari introduces Press Laws Bill in Parliament. **September 7** — Nehru meets Dr. Frank Graham, U.N. Mediator on Kashmir, just before he leaves India. **9** — Nehru takes up Congress Presidentship from Purushottamdas Tandon at AICC meeting in Delhi. **27** — Dr. Ambedkar, Minister for Law, resigns. Parliament passes Aligarh Muslim and Banaras Hindu University Bills. **October 7** — Press Bill becomes an Act. **18–19** — 57th Session of Indian National Congress, presided over by Jawaharlal Nehru, meets at Satyavati Nagar. New Delhi. **28** — China-Cultural mission arrives in Calcutta. **November 1** — H.E. Chester Bowles, U.S. Ambassador, presents credentials to the President of India. **7** — M. Patanjali Sastri appointed Chief Justice of India. **20** — Interim Constitution comes into force in Kashmir. **December 5** — Dr. Rabindranath Tagore passes away in Calcutta. **14** — Indo-Turkish treaty of friendship is signed at Ankara. **19** — Dr. Graham submits report on Kashmir to U.N.

1952

February 23 — Parliament passes Employees Provident Fund Bill. **March 14** — Jawaharlal Nehru addresses Conference of Governors and Rajpramukhs in Delhi. **21–22** — Congress Working Cttee. meets at Lake Area, Calcutta, under presidentship of Jawaharlal Nehru. **April 5** — Dr. S. Radhakrishnan meets Marshal Stalin. **14** — Jawaharlal Nehru inaugurates three integrated Railway Zones — Northern, North-East and Eastern at a junction in Delhi. **24** — Dr. S. Radhakrishnan elected Vice-Pres. of India. **May 12** — First Session of India's new Parliament meets in New Delhi. **June 15** — Pakistan rejects India's offer on evacuee property. **July 16** — Sheikh Abdullah meets Jawaharlal Nehru on Kashmir issue. **August 1** — Jawaharlal Nehru inaugurates Nationalised Airways in Delhi. **5** — Indo-Pakistan trade pact is signed. **October 29** — Pakistan decides to stop import of Indian films. **November 1** — Jawaharlal Nehru inaugurates Rural University in Sevagram. **3** — U.S. Aid agreement signed. **26** — China rejects Indian Plan for Korean issue. **December 21** — Dr. Saifuddin Kitchlew awarded Stalin's Peace Prize for 1952.

1953

January 2 — Jawaharlal Nehru inaugurates 40th session of Indian Science Congress at Lucknow. **15** — AICC meets in Hyderabad under presidentship of Jawaharlal Nehru. **17–18** — Jawaharlal Nehru presides over the 58th Plenary Session of Congress at Naval Nagar, Hyderabad. **February 24** — Master Tara Singh and 9 Akali leaders arrested at Amritsar. **March 7** — Jawaharlal Nehru inaugurates Railway's Centenary Exhibition. **18** — Nehru inaugurates Backward Classes Commission, New Delhi. **29** — Jawaharlal Nehru and U Nu (Prime Minister, Burma) meet at Imphal for joint tour of Indo-Burma border areas. **April 2** — Asaf Ali passes away at Berne, Switzerland. **7** — Asaf Ali's body is laid to rest in Delhi. **May 29** — Sherpa Tensing and Sir Edmund Hillary climb Everest. **August 9** — Sheikh Abdullah dismissed and arrested. Bakshi Gulam Mohammed becomes Prime Minister of Kashmir. **22** — Hindu Mahasabha opposes Plebiscite in Kashmir. **27** — Parliament passes Andhra Bill unanimously. **September 15** — Smt. Vijayalakshmi Pandit elected as president of the 8th session of the U.N. General Assembly. **19** — Vinoba Bhave and party are assaulted by Pandas (priests) at gate of Deoghar temple, Bihar. **October 1** — New Andhra State inaugurated by Jawaharlal Nehru at Kurnool. **3** — Dr. A. Krishnaswami Iyer passes away. **7** — Dr. Rajendra Prasad inaugurates, Chandigarh, Capital of Punjab State. **29** — India's first Radar Training Centre opened in Bombay. **November 1** — Dr. Rajendra Prasad inaugurates Telegraph Centenary Exhibition. **December 2** — Indo-U.S.S.R. Trade pact signed in New Delhi. **21** — A trade pact between Germany and India signed to establish one steel plant in India.

1954

January 4 — Mehar Chand Mahajan takes over as Chief Justice of India. **18** — An Indo-Ceylon pact on future of people of Indian origin in Ceylon signed at New Delhi. **25** — M. N. Roy passes away at Dehra Dun. **February 3** — About 500 pilgrims die in Kumbh Mela stampede at Allahabad. **March 1** — Prime Minister rejects President Eisenhower's offer of Military Aid to India. **26** — C. Rajagopalachari resigns leadership of Congress Party and Chief Ministership of Madras. **29** — Prime Minister Nehru inaugurates Institute of Public Administration in N. Delhi. **30** — K. Kamaraj Nadar elected leader of Madras Legislature Congress Party. **April 1** — Twenty-first anniversary of Indian Air Force celebrated. — Air Marshal Mukerjee takes over as first Indian Chief of Air Staff. **10** — Jawaharlal Nehru opens Central Salt Research Institute at Bhavnagar. **18** — Punjab Assembly speaker Dr. Satyapal passes away at Simla. **June 1** — Andhra Assembly passes Sri Venkateswara University Bill. **12** — President gives assent to Bihar Land Reform (Amendment) Act 1953. **25** — Chou En Lai, Chinese Prime Minister arrives in New Delhi for talks with Jawaharlal Nehru. **28** — A communique issued by Prime Ministers of India and China outlining 5 principles (Panch Shil) for regulation of relations between nations. **July 1** — Office of Indian High Commission in South Africa closed. **16** — Decision of French Govt. to transfer *de facto* power to people of Mahe is implemented. **25** — India accepts chairmanship of three Supervisory Commissions for Viet-Nam, Laos and Combodia. **August 15** — Goan volunteers enter Portuguese possessions of Goa to offer *satyagraha*. **20** — Govt. of India accepts Bank Dispute Award with modifications. **30** — V. V. Giri, Union Min. of Labour, resigns from Central Cabinet. **September 10** — Khandubhai K. Desai sworn in as Minister for Labour in Union Cabinet. **October 1** — Jawaharlal Nehru inaugurates Stamps Centenary Exhibition at New Delhi. **14** — A two-year trade agreement signed between India and China. **23** — National Industrial Devpt. Corpn. holds first meeting in New Delhi. **24** — Rafi Ahmed Kidwai, Union Minister of Food expires. **November 1** — A *de facto* merger of French settlements of Pondicherry, Karaikal, Mahe and Yanam with Indian Union takes place. **4** — Jawaharlal Nehru lays foundation stone for Himalayan Mountaineering Institute at Darjeeling. **6** — Ministry led by T. Prakasam in Andhra resigns. **9** — Ministry led by Jai Narain Vyas of Rajasthan resigns. **27** — Acharya J. B. Kripalani resigns office of Chairman of Praja Socialist Party. Acharya Narendra Dev takes his place. **December 5** — Girja Shankar Bajpai dies at Bombay. **10** — U. N. Dhebar elected President of Ind. Nat. Congress. **15** — J. P. Srivastava dies in Lucknow. **23** — B. K. Mukherjea takes over as Chief Justice of India. **26** — Dr. B. C. Roy, Chief Min. of W. Bengal, opens Hindustan Cable Ltd. at Rupnarainpur.

1955

January 1 — Dr. S. S. Bhatnagar, Chairman of University Grants Commission dies in New Delhi. **6** — All India Forward Bloc decides to merge with Congress. **11** — India's first newsprint factory at Nepanagar (M.P.) goes into production. **21** — 60th session of Indian National Congress, under presidentship of U. N. Dhebar meets at Avadi, near Madras. **March 10** — Working Journalists (Industrial Disputes) Bill is passed by Lok Sabha. **22** — A direct radio telephone link between India and Burma is established. **April 7** — Rajya Sabha passes Hindu Guardianship Bill. **11** — An Air-India Constellation, Kashmir Princess, carrying delegates to Bandung Conference crashes into sea north of Sarawak. **12** — Col. Nasser, Prime Min. of Egypt, arrives in New Delhi on way to Bandung Conference. — Lok Sabha passes Constitution (Fourth Amendment) Bill. **28** — Lok Sabha passes Untouchability (Offences) Bill. **May 5** — Lok Sabha passes Hindu Marriage Bill. **9** — Govt. of India sends a strong protest to Pakistan Govt. concerning firing by border police at Nekowal, near Jammu, in which 10 Indians were killed. **15** — Gen. S. M. Shrinagesh takes over as Chief of Army Staff. **29** — N. M. Joshi, a founder of Trade Union movement in India, dies of heart-attack in Bombay. **June 4** — India establishes direct radio telephone link with U.S.S.R. **15** — Ministry of Iron and Steel is inaugurated. **July 10** — Govt. of India draws up a programme to replace English with Hindi. **12** — An Indo-Pakistan Conference to discuss opening of passenger traffic between India and West Pakistan begins in New Delhi. **15** — President confers *Bharat Ratna*, highest national award, on Jawaharlal Nehru. **20** — All Party Goa Liberation Cttee. decides to launch mass satyagraha on August 15. **21** — Dr. Ram Manohar Lohia suspended from P.S.P. **August 1** — Direct rail service between Calcutta and Lahore resumed. **5** — Appointment of 11-member Law Commission with C. C. Setalwad as Chairman is announced by C. C. Biswas, Union Law Minister. **8** — Dr. H. J. Bhabha is elected Chairman of International Conference on Peaceful Uses of Atomic Energy. **15** — Thirty-one Indian Satyagrahis are killed and 44 wounded by Portuguese police. **24** — Dr. Ram Manohar Lohia announces decision to form a new 'Socialist Party of India' at Allahabad. **September 7** — All India Council for Secondary Education is set up by Govt. **19** — Jt. Select Cttee. of Parliament on Hindu Succession Bill recommends equal shares for sons and daughters in respect of interstate property of father. **30** — States Reorganisation Commission submits report to Govt. **October 2** — Jawaharlal Nehru inaugurates Integral Coach Factory Perambur. **5** — Jawaharlal Nehru inaugurate Hindustan Machine Tools Factory at Bangalore. **24** — Prohibition Enquiry Cttee. recommends nationwide prohibition in India by April 1958. **November 9** — Congress Wkg. Cttee. approves S.R.C. proposals in respect of all the areas except Bombay, Punjab and Andhra. **19** — Bulganin, the Russian Prime Minister, and Khruschev, Secretary of the Communist Party of Russia, arrive in Delhi on a good-will visit.

1956

January 7 — Govt. of India recognises Republic of Sudan. **19** — President promulgates an ordinance bringing all life insurance companies under Govt. management. — Dr. P. C. Bagchi, Vice-chancellor of Viswa Bharati Univ. passes away at Shantiniketan. **23** — A new cabinet headed by Sardar Pratap Singh Kairon sworn in by Punjab Governor. **February 1** — S. R. Das is sworn in as Chief Justice of India. **16** — Their Imperial Majesties, Shah and Queen of Iran, arrive in Delhi. — Dr. Meghnad Saha, eminent scientist and a member of Lok Sabha, passes away in N. Delhi. **19** — Acharya Narendra Dura, Chairman of the P.S.P. and a noted educationist, passes away at Erode. **27** — G. V. Mavalankar, Speaker of Lok Sabha, passes away at Ahmedabad. **March 1** — C. D. Deshmukh, Min. of Finance, discloses Govt. is not in favour of taking over General Insurance business. **8** — M. Ananthasayanam Iyengar elected speaker of Lok Sabha. **20** — Sardar Hukum Singh elected Dy. Speaker of Lok Sabha. **April 6** — Shipping agreement between India and Soviet Union signed. **18** — States Reorganisation Bill introduced in Lok Sabha. **26** — Jawaharlal Nehru opens India's first newsprint factory at Nepanagar, Madhya Pradesh. **28** — India and Canada sign pact on Atomic Reactor. **May 5** — Indo-Pakistan ministerial conference on minority exodus meets at Dacca. **13** — Acharya Vinoba Bhave starts Bhoodan campaign in Tiruvellore. **15** — Jawaharlal Nehru presents Second Five Year Plan to Houses of Parliament. **June 20** — Govt. of India recognises Tunisia and Morocco as Sovereign States. **22** — Dr. John Mathai resigns office of Chairman, State Bank of India. **July 13** — Govt. of India decides to constitute a Central Harijan Welfare Board. **23** — B. G. Tilak's Centenary celebrated throughout country. **24** — President accepts resignation of C. D. Deshmukh, Union Min. for Finance. **August 3** — Dr. Zakir Hussain re-elected President of World University Service. **4** — India's first Atomic Reactor goes critical in Bombay. **6** — Union Cabinet decides on bilingual Bombay State. **18** — K. Hanumanthaiya, Chief Minister of Mysore, tenders resignation of his cabinet. **19** — A new six-member Mysore Ministry, headed by K. Manjappa, sworn in at Bangalore. **24** — C. D. Deshmukh appointed Chairman of University Grants Commission. **31** — T. T. Krishnamachari appointed Finance Minister of India. **September 2** — 120 persons killed in a rail disaster in Hyderabad state. **5** — India and Burma sign five-year trade agreement in Delhi. **18** — Sardar K. M. Panikkar appointed India's ambassador to France. **20** — S. K. Dey sworn in as Min. for Community Devpt. **20** — B. R. Sen elected Director General of Food and Agricultural Organisation at Rome. **October 14** — Dr. B. R. Ambedkar and about 200,000 Scheduled Caste members embrace Buddhism in Nagpur. **16** — Y. B. Chavan elected leader, Cong. Legislature Party, Bombay State. **17** — Ernakulam-Quilon Railway link inaugurated by Railway Min. Lal Bahadur Shastri. **18** — Dr. Hare Krishna Mehtab sworn in as Chief Minister, Orissa. **19** — S. Nijalingappa elected leader of New Mysore Cong. Legislature Party. **November 6** — Maulana Azad elected president of Ninth Session of UNESCO in New Delhi. **14** — Morarji Desai sworn in as Minister of Union Cabinet. **24** — Dalai Lama, Panchan Lama and Maharaja of Sikkim arrive in Delhi to participate in 2,500th Budha Jayanti celebrations. **25** — Lal Bahadur Shastri resigns following the Ariyalur train disaster. **28** — Chou En Lai, Prime Min. of China, and party arrive in New Delhi on 12-day visits. **December 6** — Dr. B. R. Ambedkar passes away in Delhi. **30** — Chou En Lai and Nehru begin their second round of talks.

1957

January 5–6 — 62nd Session of Indian National Congress meets at Laxmibai Nagar, Indore, under presidentship of U. N. Dhebar. **20** — Prime Minister Nehru inaugurates atomic reactor in Bombay. **22** — India and Pakistan sign trade agreement. **February 24** — India's Second General Elections begin. **March 11** — B. G. Kher passes away in Poona. **16** — P. S. Kumara Swamy Raja, former Governor of Orissa, passes away. **May 10** — Dr. Rajendra Prasad re-elected President of India for second term. **13** — Dr. Rajendra Prasad and Dr. S. Radhakrishnan are sworn in as President and Vice-President respectively. **20** — T. Prakasam, valiant freedom fighter and former Chief Minister of Andhra, passes away at Hyderabad. **June 2** — Twenty-two persons die in a suburban electric train collision at Wadala, Bombay. **10** — V. V. Giri sworn in as Governor of Uttar Pradesh. **14** — H. V. Pataskar sworn in as Governor of Madhya Pradesh. **August 2** — Devdas Gandhi, S/o Mahatma Gandhi, passes away in Bombay. **16** — Centenary of First War of Independence (Mutiny 1857) celebrated all over India. **26** — Nagas' convention decides at Kohima to give up demand for Independence. **28** — Jayaprakash Narayan resigns from P.S.P. **September 8** — R. R. Divakar, former Governor of Bihar, elected Chairman of Gandhi Smarak Nidhi. **October 1** — A. J. John, Governor of Madras, passes away in Madras. P. V. Rajamannar, Madras Chief Justice, is acting Governor. **16** — Justice P. Govinda Menon dies in New Delhi. **29** — Pres. Rajendra Prasad confers upon Pandit G. B. Pant the title of Bharat Ratna. **November 5** — Yuvraj Karan Singh elected Sadar-i-Riyasat of Jammu and Kashmir State. **10** — U.S.S.R. and India sign an agreement for setting up heavy industries in India. **December 5** — U.S.A. and India sign pact for eradicating malaria in 3-years. **14** — Jawaharlal Nehru inaugurates Calcutta suburban electric train.

1958

January 8 — Harold MacMillan, British Prime Minister, arrives in New Delhi. **12** — Dr. Frank Graham, U.N. Rep. for India and Pakistan, arrives in New Delhi. **18** —

63rd annual session of Indian National Congress meets at Gauhati under presidentship of U.N. Dhebar. **26** — D. K. Karve awarded Bharat Ratna. **February 5** — Ho Chi-Minh, Pres. Democratic Republic of Viet Nam, arrives in New Delhi. **12** — T. T. Krishnamachari, Union Finance Minister, resigns. **22** — Maulana Abul Kalam Azad, Union Min. for Education, passes away in New Delhi. **March 22** — Morarji Desai takes over as Union Finance Minister. **29** — S. K. Patil takes over as Minister for Transport and Communications. **April 14** — Smt. Aruna Asaf Ali elected first Lady Mayor of Delhi Municipal Corpn. **18** — Dr. D. K. Karve celebrates 101st birthday. **May 13** — Discovery of natural gas at Jwalamukhi announced. **19** — Jadunath Sarkar, famous historian, passes away in Calcutta. **June 14** — Dr. C. V. Raman receives Lenin Peace Prize at Kremlin. **July 1** — S. K. Patil, Union Minister for Transport and Communications, inaugurates first direct shipping link between Calcutta and New York. **August 9** — Indian Security Forces drive Pakistan intruders from Tukergram. **September 11** — A joint communique by Prime Ministers of India and Pakistan on border disputes released in New Delhi. **14** — M. C. Chagla appointed India's Ambassador to U.S.A. **15** — N. V. Gadgil sworn in as Governor of Punjab. **18** — Dr. Bhagwan Das, eminent philosopher and scholar, passes away in Banaras. **October 12** — Periyar Hydro-electric project inaugurated. **November 10** — Oil is struck at one experimental drilling site at Vadser, near Vadodara (Baroda). **15** — National Mineral Devpt. Corpn. Pvt. set up. **17** — A Central Board of Workers' Education set up. **December 15** — Jawaharlal Nehru warns Pakistan that aggression will be met everywhere.

1959

January 10 — Dr. Rajendra Prasad inaugurates Diamond Jubilee celebration of Haffkine Institute in Bombay.**21** — Prince Phillip, Duke of Edinburgh, arrives in New Delhi on a state visit. **24** — First blast furnace of Rourkela Steel Plant commissioned. **March 10** — M. R. Jayakar, former Vice-Chancellor of Poona University, passes away in Bombay. **18** — U.N. Secretary General Dag Hammarskjoeld arrives in New Delhi and meets Jawaharlal Nehru. **April 3** — Jawaharlal Nehru makes statement in Lok Sabha regarding Dalai Lama's entry into Indian territory on March 31, and seeking political asylum. **26** — Indian Institute of Astronomical and Sanskrit Research inaugurated in New Delhi. **May 6** — Discovery of new coal seam in Madhya Pradesh announced in Lok Sabha. **June 11** — Prof. N. G. Ranga resigns from Congress and takes up leadership of newly formed Swatantra Party. **22** — Kasturi Srinivasan, editor of Hindu, passes away in Madras. **July 3** — Robert Menzies, Prime Minister of Australia, arrives in New Delhi on State visit to India. **August 1** — Swatantra Party's convention meets in Bombay. **22** — Saiyid Fazl Ali, Governor of Assam, passes away at Shillong. **28** — Prime Minister informs Lok Sabha of intrusion of Chinese Forces in NEFA and Ladakh. **September 10** — Govt. of India sends note to Chinese Govt. reaffirming stand on MacMohan Line as representing boundary between India and Tibet region of China. **30** — Kumari Arati Saha successfully swims English Channel. **October 21** — Chinese soldiers enter Eastern Ladakh, kill 9 patrol policemen, and capture 10. **November 2** — Dr. John Mathai, former Union Finance Minister, passes away in Bombay. **14** — China releases ten members of police patrol. **25** — A. S. Altekar, eminent Indian Historian, dies in Patna. **29** — G. S. Sardesai, an eminent historian on Maratha history, dies at Kamshet, near Poona. **December 4** — Maulana Ahmed Sayeed, President of Jamiat-ul-Ulema Hind, passes away. **9** — Dwight D. Eisenhower, President of U.S.A., arrives in N. Delhi on state visit to India. **17** — B. Pattabhi Sitaramayya, a former Pres. of Congress and former Governor of M.P., passes away in Hyderabad. **27** — Prime Minister of Cambodia, Prince Norodom Sihanouk arrives in New Delhi.

1960

January 10 — Jawaharlal Nehru lays foundation stone of Rs. 100 million rail-cum-road bridge across Brahmaputra at Pandur. **16-17** — Congress session under presidentship of Sanjiva Reddy meets at Bangalore. **20** — President Voroshilov of Soviet Russia arrives in New Delhi on state visit. **21** — Trade agreement between India and Yugoslavia signed in N. Delhi. **30** — J. C. Kumarappa, renowned scholar of Gandhian thought, passes away in Madras. **February 2** — His Holiness Sri Sankracharya of Puri passes away in Bombay. **11** — Nikita Khruschev, Prime Minister of USSR, arrives in New Delhi. **April 19** — Chou En Lai, Prime Minister of China, arrives in N. Delhi for talks on Sino-Indian border problem. — The National Defence College opened in N. Delhi. **May 1** — New States of Maharashtra and Gujarat come into being. **24** — Ida S. Scudder, founder of Vellore hospital and Medical College, passes away at Kodaikanal. **June 16** — Indo-Russian agreement for collaboration in oil and gas exploration signed in N. Delhi. **16** — International Telex Service between India and United Kingdom inaugurated. **July 1** — B. Ramakrishna Rao and V. V. Giri take charge as governors of U.P. and Kerala respectively. **10** — Canada-India reactor at Trombay attains criticality. **September 14** — M. Visveswarya Centenary celebrations inaugurated in Bangalore. **16** — National Tuberculosis Institute of India inaugurated in Bangalore. **October 14** — Indo-Polish trade pact signed in Warsaw. **25** — Trade agreement between India and Yugoslavia signed in Belgrade. **November 6** — Prime Minister, Jawaharlal Nehru, formally inaugurates Heavy Electricals Plant at Bhopal. **9** — Air Marshal Subrato Mukherjee, India's Chief of Air Staff, dies in Tokyo. **11** — Prime Minister of Burma, U Nu and Mrs. U Nu arrive in New Delhi on a state visit. **19** — Jawaharlal Nehru inaugurates Govind Sagar Dam and Power House of Chambal Project. **29** — Crown Prince Akihito and Princess Michiko of Japan arrive in New Delhi on state visit. **December 1** — C. B. Gupta elected chief of Congress legislature in Uttar Pradesh. — Air Marshal A. M. Engineer takes over Command of Indian Air Force. **3** — Lt. Gen. P. N. Thapar appointed as Chief of Army Staff. **10** — C. C. Biswas, former Union Min. for Law, dies in Calcutta.

1961

January 6 — 66th Session of Indian National Congress meets at Sardarnagar, Bhavnagar. **12** — Papers concerning Indus water treaty between India and Pakistan exchanged in New Delhi. **16** — Exchange of territories between India and Pakistan under Indo-Pakistan border agreement begins. **21** — Queen Elizabeth and Duke of Edinburgh arrive in New Delhi on state visit. **31** — Bihar's Chief Minister, Srikrishna Sinha, passes away in Patna. **February 16** — V. S. Krishnan, Chairman, University Grants Commission passes away. **18** — Binodanand Jha heads new ministry in Bihar. **24** — D. S. Kothari appointed Chairman of University Grants Commission. **March 2** — Queen Elizabeth and Duke of Edinburgh leave after Indian tour. **7** — Union Home Minister, Pt. Gobind Vallabh Pant, passes away in N. Delhi. **9** — K. Rama Rao, former editor of National Herald, passes away. **24** — Five-day session of World Council of Peace inaugurated in N. Delhi. **April 6** — Vice-President Radhakrishnan inaugurates Motilal Nehru Birth Centenary Celebrations at Agra. **May 2** — Tagore Birth Centenary Celebrations are inaugurated in N. Delhi. **8** — National Shipping Board reconstituted. **June 24** — Hindustan Fighter (HF-24) supersonic aircraft, manufactured in India, makes inaugural flight. **29** — Sardar Baldev Singh, former Defence Minister passes away in Delhi. **July 4** — Purushottamdas Thakurdas, prominent industrialist, passes away in Bombay. **19** — President Rajendra Prasad taken seriously ill in N. Delhi. **25** — Dr. S. Radhakrishnan sworn in as acting President of India. **August 15** — Master Tara Singh, Akali leader, begins fast unto death for demand of Punjabi Suba in Amritsar. **16** — Swami Rameshwaranand, Pres. of Punjab Hindi Raksha Samiti, begins counter fast in Delhi to oppose Akali demand for Punjabi Suba. **22** — Indo-Pakistan Conference on Punjab West Pakistan Border begins in N. Delhi. **October 1** — Master Tara Singh breaks 48-day old fast. **15** — Surya Kant Tripathi 'Nirala' well-known Hindi Poet passes away in Allahabad. **November 7** — Jawaharlal Nehru meets Pres. Kennedy in Washington. **21** — Averell Harriman, Spl. representative of Pres. Kennedy, arrives in New Delhi. **26** — AVRO — 748 aircraft makes inaugural flight. **29** — First Russian Cosmonaut, Yuri Gagarin arrives in New Delhi. **December 18** — India's Defence Forces march into Goa.

1962

January 1 — First state-owned oil refinery at Nunmati, Assam, inaugurated. **13** — Ajoy Ghosh, General Secretary of Communist Party of India, passes away. **24** — Abdel Hakim Amer, Vice Pres. of United Arab Republic arrives in New Delhi on a nine-day visit. **14** — Air defence radar set, developed and manufactured in India, inaugurated in Poona. **March 12** — Mrs. Jacqueline Kennedy, wife of Pres. John F. Kennedy of U.S.A., arrives in N. Delhi. **20** — Biresh Chandra Guha, eminent scientist, passes away in Lucknow. **April 1** — Use of Metric weights made compulsory all over country. — Defence Electronics Research Laboratory inaugurated in Hyderabad. **14** — M. Visveswaraya, Engineer-Statesman, passes away in Bangalore. **May 7** — Dr. Zakir Husain declared elected Vice-President of India. **11** — Dr. S. Radhakrishnan declared elected Pres. of India. **13** — Dr. S. Radhakrishnan and Dr. Zakir Husain take oath of office. — Dr. Rajendra Prasad, outgoing president, awarded 'Bharat Ratna'. A special postage stamp is also issued in his honour. **21** — Five agreements signed between India and U.S.A. Govts. providing American grants totalling Rs. 390 million for medical and educational projects in India. **June 24** — Third University of Punjab, the Punjabi University at Patiala, inaugurated. **July 1** — Dr. B. C. Roy, eminent statesman and physician and Chief Minister of West Bengal, passes away in Calcutta. — Purushottamdas Tandon, former Cong. President (Bharat Ratna), passes away in Allahabad. **24** — Anastas Mikoyan, first vice-Chairman of Council of Ministers of Soviet Russia, arrive in N. Delhi. **August 20** — Govt. of India decides to build second nuclear power station at Rana Pratap Sagar near Kotah in Rajasthan. **29** — Lok Sabha passes state of Nagaland Bill 1962. **September 8** — Chinese make fresh encroachment on Indian territory in eastern sector. **25** — Three-member team of Gandhi Peace Foundation, headed by C. Rajagopalachari leaves for U.S.A. to appeal for ban on nuclear arms. **28** — Indian and Chinese troops exchange fire near Dhola post. **October 12** — Heavy fighting begins on NEFA front between Indian and Chinese troops. **20** — China launches massive attack in NEFA and Ladakh areas. **31** — Prime Minister Nehru takes over Defence Portfolio and appoints Krishna Menon as Minister for Defence Production. **November 9** — Bharat Ratna D. K. Karve, eminent educationist social worker and centenarian, passes away in Poona. **14** — President appoints Y. B. Chavan as Minister of Defence and announces reallocation of portfolios of T. T. Krishnamachari as Minister of Economic and Defence Co-ordination and K. Raghuramiah as Minister of Defence Production. **20** — Gen. J. N. Chaudhury assumes charge as officiating Chief of Army Staff. **21** — China announces cease-fire from midnight along entire Sino-Indian Border. **December 17** — Oil and Natural Gas Commission of India and ENI of Italy sign contract for oil drilling in Ganga valley. **18** — Yugoslav Vice-President Kardelj arrives in New Delhi. **28** — Pakistan and China decide to sign boundary agreement on basis of 'location and alignment of boundary actually existing' between Sinkiang and Pakistan occupied portion of Kashmir. — India and Czechoslovakia sign agreement for collaboration in setting up a Central Machine Tool Research Institute at Bangalore.

1963

January 7 — Rs. 460 million Rihand Dam, near Mirzapur inaugurated by Jawaharlal Nehru. **9** — Morarji Desai, Union Finance Minister, announces measures to control gold in India. — Govt. of India ban forward trading in silver. **11** — Lala Shri Ram, a Philanthropist, Educationist and Industrialist, passes away in N. Delhi. **15** — Pakistani delegation headed by Z. A. Bhutto arrives in New Delhi for second round of talks on Kashmir and related matters. **20** — Dr. S. Radhakrishnan, inaugurates Vivekananda Centenary celebrations in Calcutta. **February 27** — Contract is signed with Soviet Union in N. Delhi for extension of thermal power plant at Neyveli. **28** — Dr. Rajendra Prasad, first President of India, passes away in Patna. **March 11** — First passenger locomotive built at Chittaranjan Locomotive Works commissioned. **16** — Patanjali Shastri, former Chief Justice of India, passes away in N. Delhi. **23** — In Khatkar Kalan village in Punjab a life-size statue of Bhagat Singh is installed. **April 1** — An agreement between India and Poland for technical collaboration signed in N. Delhi. **17** — Dr. S. Radhakrishnan presents Bharat Ratna awards to Dr. Zakir Hussain and P. V. Kane. **27** — An agreement with Phillips Petroleum Co. of U.S.A. for setting a refinery in India signed in N. Delhi. **May 14** — Dr. Raghuvira, President of the Jan Sangh, passes away in Kanpur. **June 2** — Dr. S. Radhakrishnan leaves for U.S.A. on a state visit. **July 14** — Swami Sivananda Saraswati, founder President of Divine Life Society, passes away at Rishikesh. **August 26** — President, Dr. S. Radhakrishnan, accepts resignations of six Union ministers (who resigned under Kamaraj Plan). The appointment of T. T. Krishnamachari as Union Finance Minister G. L. Nanda as Home Minister and Swaran Singh as Minister for Food and Agriculture also announced. **September 21** — Smt. Sucheta Kripalani elected new leader of U.P. Congress Legislature Party. **October 6** — Baba Kharak Singh, veteran Sikh leader, passes away in N. Delhi. **11** — Saif-ud-din Kitchlew, close associate of Gandhiji and Lenin Prize winner, passes away in N. Delhi. **23** — Third unit of HMT inaugurated by Prime Minister Nehru at Pinjore. **November 19** — M. C. Chagla appointed Union Minister for Education. **20** — K. Kamaraj elected President of Indian National Congress. **December 1** — Dr. S. Radhakrishnan inaugurates Nagaland as 16th State of Indian Union. Shilo Ao is first Chief Minister. **2** — Asoka Mehta becomes Dy. Chairman of Planning Commission. **10** — Sardar K. M. Panikkar, renowned scholar and diplomat, passes away in Madras. **18** — Smt. Vijayalakshmi Pandit sworn in as Governor of Maharashtra in Bombay. **22** — Dr. C. P. Ramaswami Aiyer inaugurates seminar on study of World's great religions.

1964

January 4 — Orientalists from all over the world meet in N. Delhi. **9** — Kamaraj delivers presidential address to

68th session of Indian National Congress held at Bhubaneshwar. **February 6** — Raj Kumari Amrit Kaur passes away. — India rejects in U.N. Security Council Pakistan's demand for plebiscite in Kashmir. **18** — I.A.F. transport Illyushin Aircraft reported missing. Top army officials aboard are believed killed. **April 14** — Mahavir Tyagi joins Union Cabinet as Minister for Relief and Rehabilitation. **15** — National Council of Communist Party of India suspends 32 leaders from party membership. **May 27** — Jawaharlal Nehru, First Prime Minister of Independent India, passes away. — Late Jawaharlal Nehru cremated in N. Delhi (Shantivana). **June 2** — Lal Bahadur Shastri elected leader of Congress Parliamentary Party. **9** — Lal Bahadur Shastri sworn in as Prime Minister. **September 10** — H. N. Sanyal, Solicitor General of India, is murdered in N. Delhi. **October 12** — Prime Minister Shastri and President Ayub Khan of Pakistan meet in Karachi. **18** — Smt. Vijayalakshmi Pandit resigns Governorship of Maharashtra. **30** — India and Ceylon reach agreement on problem of people of Indian origin in Ceylon **December 2** — Millions welcome Pope in Bombay. **3** — Pope Paul confers highest decoration (Golder spur) on Dr. S. Radhakrishnan. **5** — Pope Paul leaves India. **18** — Pakistan diplomat expelled from Calcutta for spying. **31** — Chinese troops intrude into Sikkim. India sends protest note.

1965

January 8 — Prime Minister Lal Bahadur Shastri lays foundation stone of Durgapur Fertiliser Factory. **15** — Barauni Oil Refinery inaugurated. **26** — Hindi becomes official language of Union. **February 6** — S. Pratap Singh Kairon, former Chief Minister of Punjab, shot dead near Delhi. **April 16** — Namrup thermal power project commissioned. **May 12** — Lal Bahadur Shastri arrives in Moscow on 8-day state visit. **June 9** — Lal Bahadur Shastri leaves on tour of UAR, Canada, U.K., and Algeria. **23** — Presidential awards for Everest heroes are announced. **July 20** — Batukeshwar Dutt, great revolutionary, passes away in N. Delhi. **August 5** — Jayaprakash Narayan awarded Ramon Magsaysay Award for public service. **7** — Pakistani sabotage parties infiltrate two sectors of ceasefire line in Jammu and Kashmir. **13** — Lenin Peace Prize awarded to Mrs. Aruna Asaf Ali. **15** — Television transmission begins in New Delhi. **25** — Indian security forces cross ceasefire line in Kashmir at two points and establish new positions. **September 1** — Pakistan invades Indian territory in Chhamb sector; India retaliates. **6** — President Ayub of Pakistan declares war on India. **17** — China issues 72 hour ultimatum to India to dismantle military installations on Sikkim border. Prime Minister Shastri warns China against trying to intervene militarily in India-Pakistan conflict. **18** — Soviet Union requests Prime Minister Lal Bahadur Shastri and President Ayub Khan of Pakistan to meet at Tashkent to resolve differences. **19** — Chief Minister Balwantrai Mehta of Gujarat dies in plane mishap. **22** — Indian and Pakistan accept ceasefire proposals of U.N. Security Council. **October 11** — First phase of Gujarat refinery at Koyali commissioned. **30** — Pakistan seizes Indian jute and tea worth Rs. 50 million from ships seized in war. **November 12** — Head of Dawoodi Bohra community Dr. Saifuddin passes away. **23** — Prime Minister Lal Bahadur Shastri accepts Soviet Prime Minister Kosygin's invitation for talks with President Ayub Khan of Pakistan in Tashkent. **December 18** — Gen. K. S. Thimayya, Commander of U.N. Peace Force in Cyprus passes away in Nicosia. **29** — First tank made in India rolls out of Avadi factory.

1966

January 7 — A five-year trade agreement is signed with U.S.S.R. **8** — Bimal Roy, noted film director and producer, passes away. **10** — Indo-Pakistani agreement signed at Tashkent. **11** — Prime Minister Lal Bahadur Shastri passes away within hours of signing Tashkent agreement. **18** — Smt. Indira Gandhi elected leader of Congress Parliamentary Party. **24** — Smt. Indira Gandhi sworn in as Prime Minister. Dr. Homi Bhabha, India's nuclear Scientist and Chairman of Atomic Energy Commission, dies in Air India crash on Mont Blanc in the Italian Alps. **February 26** — V. D. Savarkar, an eminent revolutionary, passes away. **March 8** — A. K. Sarkar appointed as Chief Justice of India. **May 9** — President Radhakrishnan inaugurates Gokhale birth centenary celebrations at Poona. **26** — India lifts ban on trade with Pakistan. — Vikram Sarabhai appointed Chairman of Atomic Energy Commission and Secretary of Deptt. of Atomic Energy. **June 6** — Devaluation of Rupee by 36·5 per cent. **July 1** — Fourth unit of H.M.T. factory at Kalamasserry is inaugurated by Prime Minister Smt. Indira Gandhi. **September 10** — Reorganisation Bill passed. **23** — Cochin Oil Refinery inaugurated by Prime Minister Smt. Indira Gandhi. **26** — Sir C. P. Ramaswami Aiyer, eminent educationist, passes away in London. **October 17** — Govt. appoints commission, headed by Mehar Chand Mahajan, to go into border disputes between Maharashtra and Karnataka and Karnataka and Kerala. **November 1** — States of Punjab and Haryana and Union territory of Chandigarh come into being. **9** — Gulzarilal Nanda, Home Minister, resigns. **13** — Y. B. Chavan becomes Home Minister and M. C. Ghagla, External Affairs Minister. **30** — Soviet Union announces Rs. 8,500 million aid to India. **December 1** — Parliament passes Goa Opinion Poll Bill. **14** — India, U.A.R. and Yugoslavia announce trade, commerce and development collaboration. **21** — V. K. Krishna Menon quits Congress.

1967

January 5 — India's first Ayurvedic University inaugurated. **20** — Goa rejects option for merger with Maharashtra by an impressive majority in opinion poll. **February 14** — India's Fourth General Election begins. **25** — Nizam of Hyderabad passes away. **March 13** — New council of ministers headed by Smt. Indira Gandhi sworn in. Morarji Desai becomes Dy. Prime Minister. **16** — New Lok Sabha meets. **April 9** — President Radhakrishnan decides to retire. **10** — U.N. Secretary General U. Thant arrives in Delhi. **12** — President presents Nehru Award to U. Thant. **May 6** — V. V. Giri wins Vice-Presidential election. **9** — Dr. Zakir Husain elected President of India. **15** — Bharatiya Kranti Dal is formed by non-congress leaders. **August 23** — Pakistan expels three officials of Indian High Commission. **September 1** — China takes over Indian property in Tibet. **5** — M. C. Chagla resigns from cabinet on language policy. **October 12** — Dr. Ram Manohar Lohia passes away. **November 1** — Telecommunication links with Pakistan restored. Commercial advertising on A.I.R. inaugurated. **4** — Mahajan Commission awards Belgaum to Karnataka. **22** — Master Tara Singh, Akali leader, passes away. **December 11** — A series of earth tremors in Western India wipes out entire Koyna township killing about 250 people. **12** — Mohar Chand Mahajan, former Chief Justice of India, passes away.

1968

January 26 — Dr. M. S. Aney, a prominent Congressman, passes away. **February 11** — Deendayal Upadhyaya, President of the Bharatiya Jan Sangh, found dead on railway track in Mugalsarai Railway Yard. **13** — A. B. Vajpayee elected Jan Sangh President. **17** — Dr. Kailash Nath Katju passes away. **April 6** — Prime Minister Smt. Indira Gandhi inaugurates construction work of Bokaro Steel Plant. **28** — Emperor Haile Selassie of Ethiopia arrives in New Delhi. **May 13** — India sends protest notes to China and Pakistan over Gilgit-Sinkiang road agreement. **27** — Second Nehru Award for International Understanding for 1966 is given to Rev. Martin Luther King posthumously. **July 6** — Submarine Wing of Indian Navy comes into being with arrival of INS *Kalvari*. **September 1** — President Ayub Khan of Pakistan rejects Indias offer of 'No-War' pact. **November 10** — Asia's biggest mechanised iron mine at Bailadila project in Madhya Pradesh starts functioning.

1969

January 2 — Shah and Queen of Iran arrive in New Delhi. **10** — Dr. Sampurnanand, prominent Congress man and former U.P. Chief Minister, passes away at Varanasi. **24** — Mrs. Coretta King receives 1966 Nehru award for International Understanding given posthumously to her husband Dr. Martin Luther King. — Dr. Hargobind Khorana, India-born Nobel prize winner is awarded Padma Vibhushan by President Zakir Husain. **February 3** — Tamil Nadu Chief Minister C. N. Annadurai (DMK leader) passes away. **16** — President Zakir Husain inaugurates week long Ghalib Centenary celebrations. Ghalib Centenary stamp is released. **22** — Dr. Vrindavan Lal Verma, renowned Hindi writer, passes away in Jhansi. — Dr. Gokul Chand Narang, Arya Samaj leader, passes away in Delhi. **March 9** — Sir Homi Mody, founder-member of Swatantra Party, passes away in Bombay. **25** — President Ayub Khan steps down from power. **31** — Gen. Yahya Khan assumes office of President of Pakistan. **April 5** — First India-built tanker for Navy launched. **18** — King and Queen of Afghanistan are received at Palam airport President Zakir Husain and Prime Minister Smt. Gandhi. **22** — A Calcutta bound Indian Airlines Fokker Friendship plane crashes at Dumuria, killing all 40 passengers and crew of four. **15–28** — 72nd Congress session under presidentship of S. Nijalingappa meets at Neki Ram Sharma Nagar, Faridabad. **May 3** — President Dr. Zakir Husain dies of heart attack. V. V. Giri sworn in as acting President. **13** — V. K. Krishna Menon and S. K. Patil elected to Lok Sabha in by-elections. **23** — U.S. Secretary of State, William P. Rogers, and Morarji Desai discuss American aid to India. **June 8** — Gen. Kumaramangalam retires as Chief of Army Staff; Gen. Manekshaw takes over. **26** — India lodges protest with Pakistan and China against construction of new road from Mor Khun in Northern Kashmir to Khunjerah pass on Kashmir-Sinkiang border. **July 12** — Congress Parliamentary Board meeting at Bangalore nominates N. Sanjiva Reddy for Presidentship. **13** — V. V. Giri, Acting President, announces candidature for Presidentship. **15** — Major train accident near Jaipur, 82, killed and 123 injured. **16** — Prime Minister takes over Finance portfolio from Morarji Desai; Morarji Desai resigns. **19** — Fourteen top scheduled banks with deposits exceeding Rs. 500 million are nationalised. — Acting President V. V. Giri resigns as Vice-President. **21** — V. V. Giri and N. Sanjiva Reddy file nomination papers for Presidentship. **23** — C. D. Deshmukh files nomination papers for Presidentship. **25** — Agreement providing Rs. 460 million West German aid to India signed in New Delhi. **31** — U.S. President Richard Nixon arrives in Delhi. **August 1** — Prime Minister Smt. Indira Gandhi and President Richard Nixon hold talks in New Delhi. **5** — Congress Parliamentary Board selects G. S. Pathak for office of Vice-President and G. S. Dhillon for Speaker of Lok Sabha. **9** — Bank Take-over Bill becomes law after President's assent. **15** — Smt. Indira Gandhi insists on freedom of vote in Presidential election; Congress splits on issue. **18** — Prof. Humayun Kabir, former Union Min. passes away in New Delhi. **20** — V. V. Giri elected President of India and sworn in on 24th, **30** — Gopal Swarup Pathak, Congress candidate, is elected as Vice-President of India. **September 8** — Supreme Court issues limited stay of operation on Bank Nationalisation Act. **19** — Large scale communal clashes take place in Ahmedabad. **23** — India invited to Islamic Summit Conference at Rabat and then refused entry. **October 1** — Khan Abdul Ghaffar Khan arrives in India after 23 years to take part in Gandhi Centenary celebrations. **2** — Gandhi Birth Centenary celebrations begin. The President, V. V. Giri, releases a set of coins and notes. **8** — Dr. P. V. Cherian, Governor of Maharashtra, dies of heart attack. **November 14** — Indira Gandhi donates 'Anand Bhavan' at Allahabad to Jawaharlal Nehru Memorial Fund. **14** — President V. V. Giri inaugurates Jawaharlal Nehru University in New Delhi. **16** — Congress Members of Parliament supporting Nijalingappa form a new party in Parliament and elect Ram Subhag Singh and S. N. Misra as leader in Lok Sabha and Rajya Sabha respectively. **23** — Quin-Centenary celebrations of Guru Nanak begin. **24** — Akali Leader, Sant Fateh Singh, threatens self-immolation if Chandigarh not merged with Punjab. — Khan Abdul Ghaffar Khan addresses both Houses of Parliament. **December 1** — Jagjivan Ram chosen President of Congress (R). **3** — Atal Behari Vajpayee re-elected Jan Sangh President. **6** — Foundation of Haldia Refinery laid near Calcutta. **9** — G. G. Swell elected Dy. Speaker of Lok Sabha. **10** — Mauritius Prime Minister Sir S. Ramgoolam arrives in India on State visit. **13** — B. Rama Rau, former Governor of Reserve Bank of India, expires. **20** — Congress Organisation session begins at Ahmedabad. **24** — Meghalaya (Assam Reorganisation) Bill passed by Parliament. **25** — Congress (Ruling) session begins in Bombay.

1970

January 8 — Tamil Nadu Govt. abolishes controls over movement and sale of foodgrains in State. **15** — Gen. Ne Win, Chairman of Burma's Revolutionary Council arrives in New Delhi on a week's informal visit. **24** — Foundation stone of Rs. 180 million Gujarat Aromatic Project laid at Vadodara. **27** — Sant Fateh Singh starts six-day fast demanding merger of Chandigarh with Punjab. **29** — Union Govt. awards Chandigarh to Punjab and Rs. 200 million and 110 villages in Fazilka to Haryana. **February 3** — Foundation stone of new Rs. 700 million fertilizer plant laid at Talcher in Orissa. **9** — Prime Minister inaugurates Rs. 300 million Urea Fertilizer plant at Kota (Rajasthan). **28** — Admiral S. M. Nanda takes over as Chief of Naval Staff. **March 8** — Haryana and Uttar Pradesh agree to undertake joint construction of Kishan Dam project near Dehra Dun at cost of Rs. 1,800 million. **19** — Prime Minister inaugurates drilling of country's first offshore oil well in Gulf of Cambay. **24** — Lok Sabha passes Banking Companies (Acquisition and Transfer of Undertaking) Bill to replace Ordinance re-nationalising 14 major banks. **April 2** — Prime Minister Indira Gandhi inaugurates Meghalaya, a new autonomous Hill State in Assam. **3** — India signs Rs. 5,362·5 million iron-ore export deal with Japan. **20** — President V. V. Giri appears in court of law as respondent witness in petition challenging his election as Head of State. **22** — New electric locomotive developed in India. **23** — President Giri leaves for Bhutan on four-day state visit. **11** — Supreme Court upholds election of V. V. Giri as President of India. **June 8** — President V. V. Giri arrives in Geneva to address 121 nations' conference of International Labour Organisation. — Sixteen-nation standing committee of non-aligned nations meets in New Delhi. **16** — S. Jagannathan takes over as Governor of Reserve Bank of India. **19** — Prime Minister Indira Gandhi lays foundation stone of 5·7 km. road bridge across Ganges at Patna. **23** — India and U.S.A. sign trade agreement at N. Delhi. **30** — Administrative Reforms Commission wound up. **July 7** — Dr. A. L. Mudaliar, former Vice-Chancellor of Madras University, awarded Leo Bernard Foundation Medal. **19** — Kashmir police smashes Pak spy-ring in State. **22** — Floods in Alaknanda river sweeps away 22 vehicles and about 200 persons at Belakuchi, 40 miles from Badrinath. **23** — Himachal Pradesh's multi-faculty University comes into being at Simla. **August 2** — Dr. Telo Mascarenhas arrives in N. Delhi, after serving ten-year term in Portuguese jails. **9** — Trilokyanath Chakravarty Maharaj, revolutionary leader from East Bengal, passes away. **23** — Union Govt. asks British Broadcasting Corpn. to close down its operation in India. **29** — I. A. Fokker plane crashes in Meghalaya with 39 people aboard. **September 2** — President V. V. Giri inaugurates Vivekananda Rock Memorial at Kanyakumari. **5** — Prime Minister Indira Gandhi leaves for Lusaka to attend Non-aligned summit meeting. **20** — President V. V. Giri arrives in Tashkent on 10-day State visit to Soviet Union. **October 2** — India and U.S.A. sign four-year cotton textile agreement. **9** — Bhabha Atomic Research Centre produces Uranium 233. **19** — First India-made MIG aircraft handed over to Air Force. **24** — India tells U.S.A. that American resumption of arms to Pakistan can seriously damage Indo-American relations. **November 4** — Jawaharlal Nehru Award for International Understanding for 1968 presented to Yehudi Menhuin in N. Delhi. **10** — Centre agrees to full statehood for Meghalaya. **21** — Dr. C. V. Raman, eminent Physicist and Nobel Prize winner, passes away in Bangalore. **27** — Prime Minister Indira Gandhi presents Bharatiya Jnanpith Award for 1969 to Raghupathi Sahai 'Firaq'. **30** — Guruvayoor Sri Krishna temple ravaged by devastating fire. **December 5** — Life Insurance in India completes 100 years. **15** — Lok Sabha passes Bill conferring statehood on Himachal Pradesh. **26** — Indo-Soviet agreement on long-term trade signed in N. Delhi. **31** — India and Iran sign trade protocol in Teheran.

1971

January 2 — Congress (O), Jana Sangh and Samyukta Socialist Party form aliance against Congress (R) for Fifth General Elections. **18** — P.S.P. leader Nath Pai dies of heart-attack. **30** — Indian Airlines Fokker friendship aircraft, on regular flight from Srinagar to Jammu, hijacked to Lahore. **February 2** — Hijacked plane blown up at Lahore airport. India bans overflight of Pak military aircraft across Indian territory. **18** — India establishes first satellite communication link *via* Arvi Earth Stn. with Goonbilly in Britain. **March 1** — Polling in Fifth General Election begins all over country. **10** — Tenth Census begins all over country. **18** — A new Union Council of Ministers headed by Smt. Indira Gandhi sworn in. **31** — Both Houses of Parliament pass resolutions expressing solidarity with people of East Pakistan (Bangla Desh) following arrest of Sheikh Mujibur Rahman on 25th March. **April 6** — India grants asylum to two diplomats, K. M. Shahabuddin and Anjadul Haque, belonging to Pak. High Commission in Delhi. **15** — India protests to Pakistan against wanton unprovoked firing along East Bengal border. **17** — Indian Navy's Sea-King helicopter squadron commissioned at Cochin naval base. **18** — Pak. Dy. High Commission in Calcutta declares allegiance to Bangladesh. **24** — Pakistan withdraws Dy. High Commission from Calcutta and asks India to withdraw its mission from Dacca. **May 13** — President Giri promulgates General Insurance Ordinance nationalising general insurance companies. **19** — New submarine base of Indian Navy *Vir Bahu* commissioned. **June 16** — India and Soviet Union agree on five-year plan (1971-75) for joint exploration of minerals in oceans adjacent to India. — Foundation-stone of Rs. 50 million petro-chemical complex laid at Nampura in Lakhimpur district of Assam. **August 2** — Parliament approves Medical Termination of Pregnancies Bill legalising abortions. **5** — Pakistan President Yahya Khan threatens to unleash war on India. **6** — In a memorandum to U.N. Secretary General 500 M. Ps. appeal to save life of Sheikh Mujibur Rahman. **9** — India and Soviet Union sign 20-year treaty of Peace, Friendship and Co-operation. — The Constitution (26th Amendment) Bill seeking to end privy purses and privileges of princes introduced in Lok Sabha. **31** — Dr. M. S. Swaminathan awarded 1971 Raman Magsaysay award for community leadership. **September 6** — Prime Minister Indira Gandhi commissions 24 mv hydel power station at Chanani in Jammu and Kashmir. **October 5** — India and W. Germany sign 5-year agreement on developing peaceful uses of atomic energy. **November 1** — Severe cyclone hits Orissa. **7** — Rs. 48·7 million dry dock at Hindustan Shipyard, Visakhapatnam, inaugurated. **18** — Defence Ministry announces formation of India's second naval fleet — Eastern Fleet — to be based at Visakapatnam. **22** — Indian Air Force Gnats shoot down three intruding Pak planes over Boyra near Calcutta. **December 3** — Pakistan attacks on Indian airbases in eastern and western sectors. President Giri declares state of emergency in country. Pakistan declares war on India. **4** — India informs U.N. of Pak aggression. **6** — India recognises People's Republic of Bangladesh. — Pakistan snaps diplomatic ties with India. **10** — India and Bangladesh sign agreement for unified military command. **11** — Gen. Manekshaw calls upon Pak troops in Bangladesh to surrender. **16** — Lt. Gen. Arora, G.O.C.-in-C., Eastern Command, accepts unconditional surrender of Pak forces in Dacca. — Prime Minster Indira Gandhi announces unilateral ceasefire on western front with effect from 20·00 hrs. on 17th December. **17** — 14-day Indo-Pak war ends. **18** — President Giri confers Nation's highest award, 'Bharat Ratna' on Prime Minister Indira Gandhi. **30** — Dr. Vikram A. Sarabhai, Chairman of Atomic Energy Commission, dies at Kovalam, near Trivandrum.

1972

January 5 — India discontinues import of food grains from U.S.A. under P.L. 480. **10** — Sheikh Mujibur Rahman arrives in New Delhi after being freed by Pakistan Govt. **20** — State of Meghalaya and Union Territory of Arunachal Pradesh are inaugurated by Prime Minister Mrs. Gandhi. **21** — States of Manipur and Tripura and the Union Territory of Mizoram are inaugurated by Mrs. Indira Gandhi. **26** — A national memorial to 'Amar Jawan' installed at India Gate, New Delhi. **February 1** — Union Govt. constitutes International Airports Authority of India to manage the four international airports. **2** — Foundation-stone of Rs. 490 million outer harbour project laid at Visakhapatnam. **10** — India and Canada directly linked by new telephone service *via* India's Satellite earth station at Arvi near Pune. **11** — Union Govt. issues orders stopping payment of privy purses to former rulers from Jan. 1972. **March 5** — General election to State Assemblies begins. **17** — Prime Minister Indira Gandhi visits Dacca. **19** — India and Bangladesh sign 25-year treaty of friendship, co-operation and peace. **April 4** — Indian Muslim League's President Mohammad Ismail passes away in Madras. **14** — Eighty-five Chambal ravine dacoits lay down arms before Sarvodaya leader, Jayaprakash Narayan, in Jaura. **18** — P. V. Kane, an eminent indologist and recipient of 'Bharat Ratna', passes away. **29** — Foundation-stone for Rs. 450 million shipyard project at Cochin laid. **May 7** — Congress President D. Sanjivayya passes away in

Delhi. **11** — Dr. Shankar Dayal Sharma elected President of Congress Party. **15** — Smt. Indira Gandhi presented with Mexican "Order of Law, Culture and Peace," highest award of Mexican Academy of International Law. **27** — A 'Nehru Capsule' containing chronicle in words and pictures of Nehru era, placed undergound at Shantivana in Delhi to mark eighth death anniversay of Jawaharlal Nehru. **29** — Veteran stage and screen actor Prithviraj Kapoor passes away. **31** — Zambian President, Dr. Kenneth Kaunda, selected for 1970 Jawaharlal Nehru Award for International Understanding. **June 2** — Union Govt. sets up space commission. **3** — I.N.S. Nilgiri, first indigenously built frigate commissioned. **12** — First India-built passenger-cum-cargo ship, Harsha Vardhana, is launched at Bombay. **28** — Indo-Pakistan summit talks between Prime Minister Indira Gandhi and President Z. A. Bhutto start at Simla.—Eminent economist Prof. P. C. Mahalanobis passes away in Calcutta. **July 2** — Prime Minister Indira Gandhi and President Z. A. Bhutto sign agreement at Simla committing India and Pakistan to abjure use of force in resolving differences. **15** — Bakshi Ghulam Mohammad, former Premier of Kashmir, passes away at Srinagar. **16** — Bengal poet Bishnu Dey chosen for 1971 Bharatiya Jnanpith Award. **27** — State Assembly decides to rename the Mysore state as Karnataka. **28** — Charu Mazumdar, founder of Naxalite movement and C.P.I. (Marxist-Leninist), dies of heart attack in Calcutta hospital. **August 7** — First Automatic letterpress printing machine manufactured by H.M.T. **12** — First rocket by Indian Space Research Organisation launched from Thumba Equatorial Rocket Launching Station. **15** — 25th Anniversary of Independence celebrated. **29** — Indo-Pak official level talks end in Delhi agreeing to delimitation of line of control. **September 6** — Ustad Allauddin Khan, 110-year-old sarod maestro, passes away. **October 2** — Bombay T. V. Centre. commissioned. **4** — Prime Minister Indira Gandhi awarded the International Apostolic Humanitarian Award for 1972 instituted by the Philadelphia based Apostolic Church. **30** — Akali leader, Sant Fateh Singh, expires in Amritsar. **November 3** — Third Asian International Trade Fair opens in New Delhi. **15** — President Giri presents 1969 Jawaharlal Nehru Award for International Understanding to Mother Teresa. **26** — A naval base INS *Dwaraka*, commissioned at Okha. **27** — Bangladesh President arrives in New Delhi on first State visit to India. **December 1** — India and Pakistan repatriate prisoners of war captured on western front during 1971 Indo-Pak war. **11** — India and Pakistan approve line of control in Jammu and Kashmir. **14** — India and Spain sign first trade and economic co-operation agreement. Hindustan Aeronautics Ltd., Bangalore produces first agricultural plane named 'Basant'. **25** — C. Rajagopalachari passes away in Madras. **28** — Ustad Hafiz Ali Khan, the sarod wizard, expires in New Delhi. **29** — Prime Minister Indira Gandhi lays foundation stone of Rs. 1,400 million tube railway for Calcutta.

1973

January 1 — Punjab Govt. bestows on Smt. Vidyawati, mother of martyr Bhagat Singh, honorific 'Punjab Mata and a monthly pension of Rs. 1,000. **2** — Chief of Army Staff, Gen. S. H. F. J. Manekshaw is promoted to rank of Field Marshall. **15** — Gen. G. G. Bewoor and Air Chief Marshal O. P. Mehra take over as Chief of Staff of the Army and Air Force respectively. **27** — Rohini-560, India's biggest rocket, launched from Sriharikota in Andhra Pradesh. **30** — A time capsule devoted to work of Mahatma Gandhi embedded at Gandhi Smriti in New Delhi. **February 5** — Prime Minister Indira Gandhi presented with F.A.O. medal. **14** — First MIG 21-M. produced at Nasik Division of Hindustan Aeronautics, handed over to I.A.F. **22** — Union Cabinet approves take over of wholesale trade in wheat. **March 1** — Admiral S. N. Kohli takes over as Chief of Naval Staff. **6** — AIR and GRD Television sign three-year protocol on exchange of T.V. programmes. **25** — Oil struck at Sibsagar in Assam. **April 1** — A Rs. 40 million programme to preserve Indian tiger is launched. **5** — Balraj Madhok, former Jan Sangh leader, forms new party, Rashtriya Loktantrik Jana Sangh. **13** — Balraj Sahni, film character actor, passes away. A Rs. 1,900 million petro-chemical complex at Jawaharnagar (Gujarat) commissioned. **20** — Atom Power Station at Rawatbhata, near Kota, starts operation. **24** — Supreme Court upholds Parliament's right to amend Constitution including fundamental rights. **25** — Justice Ajit Nath Ray appointed Chief Justice of India. **28** — Bharatiya Jnanpith Award for 1972 to Ramdhari Singh 'Dinkar' for his poetical work 'Urvashi'. **May 9** — Hindi Novelist Bhagwati Prasad Bajpai passes away. **20** — Cochin Shipyard Ltd., and a Scottish firm sign agreement to build bulk carriers of 75,000 DWT in India. **24** — India secures contract to build railway line in Iraq. **31** — Union Minister for Steel and Mines, Mohan Kumaramangalam, killed in an aircrash in N. Delhi. **June 5** — M. S. Golwalkar, Rashtriya Swayamsevak Sangh Chief, passes away at Nagpur. **28** — M. M. Dhandapani Desikar, exponent of Karnatak music, passes away in Madras. **July 27** — South Bihar Express runs into Amritsar Mail near Madhupur station on the Eastern Railway. 20 people killed. **12** — Assam, Uttar Pradesh, Punjab and Jammu & Kashmir are ravaged by floods. **September 3** — Prime Minister Indira Gandhi leaves for Algiers to attend non-aligned nations' summit meeting. — Lalji Pendsey, Founder Member of C.P.I., expires in Bombay. **16** — Chogyal of Sikkim arrives in New Delhi. **29** — Armed men hijack bank cash van containing Rs. 600,000 killing the security guard in New Delhi. **October 1** — Guru Gopala Panikkar (97), Kathakali exponent, expires at Cochin. **12** — King Birendra of Nepal arrives in New Delhi. **21** — Delhi University and 48 colleges closed following student police clash. **29** — Birth Centenary of Swami Ramatirtha observed. **November 1** — Mysore State is renamed as Karnataka. **6** — Delhi observes Bandh to protest against rising prices. **10** — World Congress on Productivity Science for Progress of mankind meets in Bombay. **11** — Dewan Chamanlal (81), Trade Unionist and Congress leader, expires in Delhi **14** — Indipex — India International Philatelic Exhibition-1973, inaugurated in New Delhi. **17** — Mother of Aurobindo Ashram (95) expires at Pondicherry. **24** — Indian Airlines declares lock-out. **25** — Leonid Brezhnev, Chief of Soviet Communist Party, arrives in N. Delhi on official visit. **December 1** — Allahabad University closed following students' rampages and arson. **4** — Indian Railway Act (Amendment) Bill seeking to raise limit of compensation from Rs. 20,000 to Rs. 50,000 for loss of human life in accidents is passed. Dr. Gustav Husak, Chairman of Central Committee of Czech National Front arrives on official visit. **12** — Riots rock Maharashtra and Karnataka on boundary dispute. **18** — Muzaffar Ahmed (85), founder member of C.P.I. passes away. **27** — New Zealand Prime Minister, Norman Kirk, arrives in India. **28** — Four persons arrested in Bombay for plotting to throw bomb in Parliament.

MAJOR INDIAN EVENTS—1974

January 1: India and New Zealand issue a joint statement calling major powers to treat Indian Ocean as a peace zone; **5.** The Council of Scientific and Industrial Research prepares plan to convert coal into oil. First pilot plant to be set up at the Central Fuel Research Institute; **10.** The strike in Indian Airlines Corporation by its employees called off; **13.** Mrs. Gandhi lays foundation stone at Narora in Uttar Pradesh for the fourth nuclear power station; Life Insurance Corporation employees all over India go on indefinite strike. Gujarat student agitation takes violent turn leading to police firing, army moves in; **14.** Indo-Soviet oil collaboration proposal signed; **23.** India and Sri Lanka reiterate demand that Indian Ocean should be left as zone of peace; **28.** Central Cabinet decides to rush foodgrains to Gujarat.

February 7: Gujarat Governor dismisses four State Cabinet Ministers who earlier had sought Chief Minister's resignation; **9.** President's rule imposed in Gujarat following Chief Minister, Mr. Chimanbhai Patel's resignation. Assembly suspended. **10.** Army opens fire on food rioters in Ahmedabad; **16.** Army moved out of Ahmedabad city; **19.** India and the U.S. reach agreement on disposal of U.S.-held rupees in regard to PL-480 and other aid programme; **22.** Pakistan and Bangladesh recognise each other unconditionally; **27.** Railway budget imposes Rs. 1,383·80 million in fresh imposts on freight and passenger charges; **28.** The Finance Minister, Mr. Y. B. Chavan, presents budget with net deficit of Rs. 1,250 million in a budget of Rs. 90,000 million for 1974-75.

March 1: Cong.-CPI alliance gets absolute majority in Orissa Assembly elections; Congress gets absolute majority in U.P. poll; **3.** Demand raised for dissolution of Gujarat Assembly, four killed in Gujarat in police firing; **14.** India acquires 74 per cent of shares in ESSO; **15.** Gujarat Assembly dissolved. President's rule imposed; **18.** Trouble starts in Bihar and State-wide demonstrations; two killed, 23 injured in Patna on opening day of Assembly price rise protest; the *Searchlight* office and printing press burnt by demonstrators; Petroleum Minister informs Rajya Sabha of oil struck in the first well of Bombay High; **19.** Trouble spreads to entire State of Bihar; 10 killed, 31 injured in police firing; **27.** Sheikh Abdullah demands return to pre-1953 status to Kashmir; **28.** The Food and Agriculture Minister, Mr. Fakhruddin Ali Ahmed, announces Government's decision to scrap "wholesale trade in wheat" policy.

April 9: India, Pakistan and Bangladesh reach agreement on amnesty to POW's and repartriates Pakistani nationals stranded in Bangladesh; Mr. Jayaprakash Narayan leads silent procession in support of student agitation against price rise in Patna. Bihar Assembly prorogued; **12.** Eight killed, 12 injured in Gaya police firing on student-led "Paralyse the Government" demonstration; **14.** Mr. Jayaprakash Narayan forms new organisation to "save democracy." **15.** National Co-ordination Committee of Railway Unions decides to launch nation-wide strike from May 8; **20.** Tamil Nadu Assembly adopts by an overwhelming majority a resolution on State autonomy; **21.** 734 Pakistani prisoners of war repatriated through Wagha border post; **22.** Sikkim Congress gains absolute majority in first general election to the State's 32-member Assembly; **23.** Railway unions serve 14-day strike notice; Mr. Jayaprakash Narayan announces five-week agitation plan to press resignation of Ghafoor Ministry and dissolution of Assembly; **24.** Railways curtail passenger services to conserve coal in view of threatened strike; **26.** Supreme Court upholds education rights of minorities; **28.** Prime Minister, Mrs. Indira Gandhi, leaves for Teheran; **29** India and Iran express the need for close economic co-operation between countries of South-East Asia to promote economic progress, peace and stability; **30.** Lt.-General. Niazi and the last batch of prisoners of war leave for Pakistan.

May 1: Indo-Iranian pact on setting up a joint shipping company and expansion of Madras Oil Refinery signed; **2.** Mr. George Fernandes and other Railway Union leaders arrested under the Maintenance of Internal Security Act; India secures Rs. 2,260 million ($282 million) special Drawing Rights from the International Monetary Fund to meet higher import oil bill; **4.** India beat Japan 4–1 at Kanpur and enter East Zone Davis Cup final; **7.** 24 MLAs of Bihar Assembly resign and demand dissolution of Assembly; **8.** Railwaymen begin strike all over India; **14.** India beat Australia 3-2 in East Zone Davis Cup final at Calcutta; **18.** India carries out first underground nuclear explosion at Pokhran in Rajasthan, experiment — a great success; **23.** Canada suspends all nuclear aid to India; **26.** The President, Mr. V. V. Giri, appeals to railwaymen to end strike; **28.** 20-day-old Railway strike called off. Mr. George Fernandes and other leaders released.

June 2: A massive demonstration staged against dissolution of Bihar Assembly in Patna. **5.** Supreme Court holds the view that dissolution of an Assembly is not a hurdle in election of President; **21.** Sikkim Assembly calls for integration of Sikkim's economic and social development in India's planning; **22.** Ordinance promulgated for amending Essential Supplies Act 1935 providing for deterrent punishment to hoarders and blackmarketers. **27.** Katchativu Island transferred to Sri Lanka, agreement signed in Delhi.

July 1: Mr. F. A. Ahmed nominated for Presidency by the ruling party; **4.** Chogyal of Sikkim signs the Bill passed by Assembly which embodies the constitutional framework of Sikkim; **6.** The President, Mr. V. V. Giri, signs two Ordinances to freeze dividends and additional wages in order to curb inflation; **17.** President Giri signs Ordinance providing for compulsory deposit for higher income groups; **23.** Sikkim Congress Ministry sworn in.

August 1: Mr. Jayaprakash Narayan launches "no tax campaign" in Bihar; **2.** Air India pilots go on strike, services grounded; **20.** Mr. F. A. Ahmed elected as President defeating the Opposition candidate, Mr. Tridib Kumar Chaudhary; **21.** Supplement Railway budget introduced to collect additional revenue to the tune of Rs. 1,400 million; **27.** Mr. B. D. Jatti elected Vice-President; **28.** Parliament approves 34th Constitutional Amendment to extend protection to States' land ceiling and tenure laws; **31.** Import licence scandal erupts in Parliament.

September 7: Constitution (35th Amendment) Bill to give representation to Sikkimese in Indian Parliament passed; **13.** Indian and Pakistan research agreement on restoration of communications and travel facilities; **17.** Air India lays off 1,000 workers following pilots strike and lockout; Ordinance promulgated to detain smugglers under MISA; **18.** Eight top smugglers including Haji Mastan and Sukur Narain Bakhia, taken into custody; **19.** India-USSR sign a protocol on economic and technical programme; **21.** President promulgates Ordinance for take-over of 103 sick textile mills.

October 2: Shah of Iran arrives; suggests the need for the formation of an economic inter-relationship in the northern part of Indian Ocean also assures India that Iran will not support Pakistan in case of a war; **10.** The Prime Minister, Mrs. Indira Gandhi, announces reshuffle of the Union Council of Ministers resulting in the exit of two Cabinet Ministers, one Minister of State and three Deputy Ministers; **15.** India and Pakistan resume telecommunication links which were snapped during the 1971 war; **19.** President issues Ordinance to amend law on poll expenditure; Congress Working Committee elects Mr. D. K. Borooah as interim Congress President; **28.** Air India pilots call off strike; **28.** Indo-U.S. Joint Commission on Economic, Scientific and Educational Co-operation signed by the Foreign Minister, Mr. Y. B. Chavan, and the U.S. Secretary of State, Dr. Kissinger, in Delhi; **28.** Indo-U.S. communique on Dr. Kissinger's visit supports Simla Agreement, hails India's affirmation of peaceful uses of nuclear knowhow and says President Ford will visit India in 1975; India concedes Davis Cup to South Africa.

November 1: Mrs Gandhi — Mr. J. P. Narayan meeting for 90 minutes ends in failure. Air-India lock-out ends; **4.** Jayaprakash Narayan and Sarvodaya workers injured as Police lathi charge a procession trying to gherao Secretariat and Ministers — thousands arrested; **8.** Andre Malraux is Nehru Award winner for 1972; **11.** Tulmohan Ram, Yogendra Jha arrested by CBI in Pondicherry Import Licences Scandal case, bailed out-contact man S. M. Pillai turns approver, implicates several M.Ps.; **15.** The Home Minister, Mr. Brahmananda Reddi, apologises in Lok Sabha for police using lathis against Mr. J. P. Narayan and causing injuries to him; **16.** President's order bars court remedy to smugglers held under MISA; **18.** Pakistan plays host to CENTO naval exercises off Karachi, described as "largest ever maritime military exercise" in Indian Ocean with units from U.S., (9), U.K. (9), Iran (10) and Pakistan (20) — 48 war ships in all for "midling 1974." **28.** CBI-Tulmohan Ram collusion in Licence Scandal Case alleged in Lok Sabha by Mr. A. B. Vajpayee.

December 2: Speaker clears Ministers of privilege charges in licence scandal case, permits debate on Tulmohan Ram; **5.** Congress suspends Tulmohan Ram: Compromise moves by Government on Opposition's demand for CBI report; **7.** Indo-Pakistan trade embargo lifted; **10.** Mr. Morarji Desai cancels Satyagraha, accepts PM's offer to show CBI documents in the Licences Case. Lok Sabha return to comparative normalcy; **15.** India and Bangladesh reach agreement on rail link; **16.** Speaker Dhillon rejects privilege move against the Railway Minister, Mr. L. N. Mishra; **17.** India and Bangladesh sign protocol switching over to trade in free currency; **18.** Lok Sabha rejects Opposition motion to remove Mishra from the House; **19.** Parliament passes Poll Expenses Bill; **31.** India and Portugal reestablish diplomatic ties.

MAJOR FOREIGN EVENTS—1974

January 1: Libya increases oil price to $18·76 a barrel; **2.** About 75,000 workers laid off in U.K.following adoption of 3-day week due to fuel crisis; **17.** Mr. Nixon announces Egypt and Israel have reached accord on forces disengagement; **23.** Withdrawal of Israeli forces from Egyptian territory begins; **24.** Mr. Mohammadullah elected President of Bangladesh.

February 4: U.K. and U.S. reach agreement on Diego Garcia; **7.** Mr. Edward Heath, British Prime Minister, announces general elections will be held on Feb. 28; **11.** Libya nationalises American oil companies; **22.** Pakistan recognises Bangladesh; **27.** Coup in Ethiopia, Emperor Haile Selassie deposed; **28.** Britain goes to poll.

March 2: U.K. in political crisis with no party securing majority in the House of Commons; **3.** 345 killed in worst air disaster near Orly (France) involving a Turkish airliner (DC-10); **18.** Seven oil producing States, meeting in Vienna, agree to lift five-month-old oil embargo on U.S.; **20.** Port Said reopened for world shipping; **22.** The 17-nation non-aligned meeting at Algiers denounces U.S. decision on Diego Garcia; **29.** Mr. Nixon agrees to give Watergate documents to congressional inquiry body.

April 4: The Organisation of Petroleum Exporting Countries (OPEC) decides to create special fund to aid poor nations.

May 7: The West German Chancellor, Mr. Willy Brandt, resigns in connection with spy case; The U.S. Senate refuses to grant $29 million to enlarge the U.S. naval base at Diego Garcia; **16.** Marshal Tito elected President of Yugoslavia for life; **31.** Israel and Syria agree on disengagement of forces.

June 2: Jigme Singye Wangchuk crowned as King of Bhutan; **10.** The U.N. Security Council votes for Bangladesh entry into U.N.; **27.** Mr. Nixon in Moscow for summit talks; Mr. Bhutto arrives in Dacca; **28.** The U.S. and the USSR sign three co-operation pacts; **29.** Bhutto-Mujib talks on sharing of assets, liabilities trade and repatriation of Pakistani nationals fail.

July 15: The Cyprus armed forces overthrow President Makarios in a coup; **19.** Congressional lawyers recommend impeachment of Mr. Nixon for his role in Watergate; **22.** Greece and Turkey accept U.N. Security Council call for cease-fire; **28.** The Judiciary Committee of the U.S. House of Representatives recommends Mr. Nixon's impeachment.

August 8: Mr. Nixon decides to step down from presidency; **9.** Mr. Gerald Ford becomes 38th President of the U.S. following Mr. Nixon's resignation; **20.** Mr. Nelson Rockefeller named U.S. Vice-president.

September 8: President Ford pardons Mr. Nixon for his offences in Watergate scandal; **10.** Portugal grants independence to Guinea-Bissau; **18.** President Ford says U.S. will increase its food aid to establish an international system of food reserves; The U.N. General Assembly admits Bangladesh, Guinea-Bissau and Grenada as new members bringing its total membership to 138; **21.** In Honduras hurricane kills 8,000 persons; **26.** India's External Affairs Minister, Mr. Swaran Singh, says that India has no plan to make nuclear weapons; **30.** Gen. Spinola resigns as President of Portugal and the Armed Forces Chief of Staff, Gen. Francisco de Costa Gomes, succeeds him; The U.N. General Assembly rejects credentials of the South African delegation.

October 11: Labour Party wins Britain's general election with thin majority; **24.** Mr. Bhutto in Moscow; Mr. Kosygin, Soviet Prime Minister asks Mr. Bhutto to improve relations with India.

November 3: U.K. to end Simonstown agreement with South Africa; **4.** Sri Lanka Indians form 'Sri Lanka Socialist Party'; **6.** At Rome Mr. Jagjivan Ram, Minister for Agriculture, proposes a Food Security Council at the World Food Conference ; **7.** Davis Cup awarded to South Africa ; **16.** World food conference ends at Rome, agrees to form World Food Security Council ; **23.** The Palestinian Liberation Organisation (PLO) given permanent observer status at the U.N. ; **24.** Mr. Ford and Mr. Brezhnev agree to limit arms race.

December 2: Mr. Takeo Miki is new Japanese Prime Minister ; **3.** U.K. agrees to U.S. expansion of Diego Garcia base ; **7.** Archbishop Makarios returns home ; Students start building U Thant's tomb in the Rangoon University campus ; **11.** Martial law and curfew imposed in Rangoon after disturbances following removal by troops of U Thant's body from the university campus mausoleum built by students ; **13.** The U.S. Attorney General Mr. William Saxbe, named Ambassador to India ; The U.N. General Assembly adopts "Economic rights" Character ; **15.** Malta becomes a Republic ; The U.S. House of Representatives approves funds for Diego Garcia ; **18.** India becomes a member of the 36-member Food Security Council ; **23.** Portugal lifts travel curbs on Indians. **25.** Portugal withdraws its case against India on Goa from the U.N.

DEATHS—1974

October 8: Mr. V. K. Krishna Menon dies.

November 25: U Thant, former U.N. Secretary-General dies.

December 1: Mrs. Sucheta Kripalani dies ; **21.** The founder-member of the British Communist Party, Rajani Palme Dutt, dies.

STATE ASSOCIATIONS

ANDHRA PRADESH

COMMERCIAL

Agricultural Machinery and Implements Mfrs. Association, Andhra Pradesh, 3-5-822/6, Hyderguda, Hyderabad 500001.

Animal Feeds Manufacturers' Association, C/o Feeds and Farms, 1/E. P. Rao Nagar, Secunderabad 400025.

Automobile Association of Southern India, 1-2-166/3, Sarojini Devi Rd., Secunderabad 500003.

Automobile Dealers' Association, Andhra Pradesh, 5-2-438, Apada Bldg., Hyderabad 500001.

Automobile Dealers' Association, Visakhapatnam, 25-12-4, Rajavari St., Visakhapatnam 530001.

Automobile Merchants Association, Guntur Dist., G. T. Rd., Guntur 522001.

Beedies & Cigarettes Wholesale Merchants Assocn., Main Bazar, Guntur 522003.

Bullion & Jewellery Merchants Assocn., Guntur, Main Rd., Guntur 522001.

Chemists and Druggists Association, Andhra Pradesh, 4/4/928, Kumud Kunj, Kandaswamy Lane, Sultan Bazar, Hyderabad 500001.

Chillies Merchants Assocn., Guntur, Eluru Bazar, Guntur 522003.

Coal & Coke Dealers Assocn., Hyderabad-Secunderabad, 4-5-113, Lala's Temple, Ranigunj, Secunderabad 500003.

Coir Rope Dealers Assocn., Guntur Retail, Near Fruit Market, Guntur 522003.

Cloth Merchants Association, Hyderabad, Afzalganj, Hyderabad 500012.

Corrugated Box Mfrs. Association, Andhra Pradesh, Shankerlal Bldg., Abid Rd., Hyderabad 500001.

Dyes & Chemical Merchants' Association, Secunderabad, C/o Rajeshwar Trading Co., 3-4-23, Mahankali St., Secunderabad 500003.

Electrical Dealers' Association, Vijayawada, Vijayawada 520001.

Estate Industries Association, Station Rd., Guntur 522001.

Export Merchants' Association, Eluru Bazar, Guntur 522003.

Fertilisers & Insecticides Dealers Assocn., Patnam Bazar, Guntur 522003.

Foundries Association, Andhra Pradesh State, C/o Fedn. of A. P. Chambers of Commerce & Ind., 3-5-822/6, Hyderguda, Hyderabad 500001.

Foundry Engineering Workshops Association, Vijayawada, Cement St., Vijayawada 520001.

Gold, Silver, Jewellery & Diamond Merchants Assocn., Andhra Pradesh, Sarafa Bazar, Secunderabad 500003.

Grain & Seeds Merchants Association, Andhra Pradesh, B-11-939, Osmanganj, Hyderabad 500012.

Graphite Crucible Manufacturers' Association, All India, Rajahmundry 533103.

Gunny Merchants Association, Andhra Pradesh, 15-2-462, Kishanganj, Hyderabad 500012.

Handloom Weavers Central Co-op. Assn. Ltd., Hyderabad, 3-5-770, Narayanguda, Hyderabad 500029.

Handloom Weavers Co-operative Society Ltd., Secunderabad, 545, Rangrez Bazar, Secunderabad 500003.

Hides & Skins Merchants' Association, Andhra Pradesh, Tarapet, Vijayawada 520001.

Hotel Owners' Association, Guntur, Station Rd., Guntur 522001.

Hotel Owners' and Confectioners' Association, Hyderabad, 11-6-242, Nampally, Hyderabad 500001.

Hotels Association, Andhra Pradesh, 93, Sarojini Devi Rd., Secunderabad 500003.

Industrial Co-operative Society Ltd., Hyderabad Women's, 11-3-919, New Mallepally, Hyderabad 500001.

Industrial Estate Manufacturers' Association, Industrial Estate, Sanatnagar, Hyderabad 500018.

Iron, Hardware & Paints Merchants Assocn., Guntur, Patnam Bazar, Guntur 522003.

Khadi & Village Industries Board, Andhra Pradesh, 2-4-1114, K. Guda, Hyderabad 500027

Kirana Merchants' Association, Hyderabad, 15-7-502, Begum Bazar, Hyderabad 500012.

Livestock Exporters' and Importers' Association, Andhra & Tamil Nadu, Dovalapalem, Ongole, Prakasam Dt.

Marketing Federation Ltd., Andhra Pradesh State Co-operative, 5-268, Jambagh Rd., Hyderabad 500001.

Mica Association, Madras, Gudur (Nellore Dist.).

Motor Merchants' Association, Andhra, Prakasam Rd., Governorpet, Vijayawada 520002.

Oil Dealers' Association, Guntur, Bandala Bazar, Guntur 522003.

Oil Millers Association, Andhra Pradesh, 15-2-677, Kishanganj, Hyderabad 500012.

Oil & Seeds Exchange Ltd., Hyderabad, 15-2-677, Kishanganj, Hyderabad 500012.

Oilseeds & Oils Exchange Ltd., Adoni, T. G. Lakshmanayya Setty & Sons Bldg., Prabhakar Rd., Adoni 518301.

Paper Merchants' Association, Andhra Pradesh, 3364, Rashtrapati Rd., Secunderabad 500003.

Pharmaceutical & Chemical Manufacturers' Association, Andhra Pradesh, 3-5-1102, Narayanguda, Hyderabad 500029.

Pulp & Paper Technical Association, Indian, C/o A. P. Paper Mills, Rajahmundry 533101.

Readymade Dress Dealers & Mfrs. Assocn., Guntur, 18, Gandhi Park Rd., Guntur 522003.

Rice Merchants' Association, Guntur, S.K.P. Temple St., Guntur 522003.

Small Industries Association, Andhra Pradesh, Convent St., Vijayawada 520001.

Soap Manufacturers' Association, Andhra Pradesh, 15-1-269, Goshamahal Rd., Topkhana, Hyderabad 500012.

Steel Re-Rollers Association, Andhra Pradesh, 3-5-822/6, Hyderguda, Hyderabad 500001.

Stevedores Association, Visakhapatnam, Roychat Bldg., Godavari St., Visakhapatnam 530001.

Stock Exchange, Hyderabad, Shahrah-E-Osmani, Hyderabad 500001.

Sugar Factories Ltd., Andhra Pradesh State Federation of Co-operative, 3-5-822/6, Hyderguda, Hyderabad 500001.

Sugar Manufacturers' Assocn., Andhra Pradesh Khandsari, 15-2-677, Kishanganj, Hyderabad 500012.

Textile Dealers Assocn., Guntur, Cloth Bazar, Guntur 522003.

Tobacco Association, Indian, Old Club Rd., Kothapet, Guntur 522001.

Tobacco Merchants Assocn., Guntur, Cloth Bazar, Guntur 522003.

Tobacco Wholesale & Retail Merchants Assocn., Guntur Town Country, Bandala Bazar, Guntur 522003.

Trades Association, Hyderabad, Singhvee Bhavan, Tilak Rd., Hyderabad 500001.

Turmeric Merchants' Association, Cuddapah, Mundy Bazar, Cuddapah 516001

Yarn Merchants' Association, Secunderabad, 4-4-58/235, Gunj Bazar, Secunderabad 500003.

CULTURAL, SOCIAL AND PROFESSIONAL

Arogyavaram, Post Box 13, Madanapalle 517325.

Athletic Association, Andhra Pradesh Amateur, F-1, Bachelors Qrtrs., Osmania Univ. Campus, Hyderabad 500007.

Ball Badminton Federation of India, 'Maman', Saifabad, Hyderabad 500004

Bus Owners' Association, Secunderabad, 8, St. Mary's Rd., Secunderabad 500003.

Child Welfare, Andhra Pradesh State Council for, Sagar Numa, R. B. Rd., Hyderabad 500004.

Children's Aid Society, Hyderabad, R. K. Home, Nanalnagar, Hyderabad 500008.

Family Planning Association of India, Opp. Challapalli House, Begumpet,Hyderabad 500016.

Film Exhibitors Association, Royal Talkies Bldg., Sultan Bazar, Hyderabad 500001.

Football Association, Andhra Pradesh, Fateh Maidan, Hyderabad 500001.

Granthalaya Sangham, Guntur 522002.

Indo-Soviet Philatelic Society, 17-5-208, Osmania Masjid, Bibi Alawa, Hyderabad 500024.

Law Institute, Indian (Andhra Pradesh State Unit), High Court Bldgs., Hyderabad 500001.

Lorry Owners' Association, Guntur Dist., Patnam Bazar, Guntur 522003.

Materials Management Association, 69-H, Rashtrapati Rd., Secunderabad 500003.

Medical Aid Association, Hyderabad Women's & Children's, A. C. Guards, Hyderabad 500004.

Oil Technologists' Association of India, Regional Research Laboratory, Hyderabad 500009.

Pen-friends League, Universal, 545/3, Dabirpura, Hyderabad 500024.

Productivity Council, Andhra Pradesh, 10-1-200, A. C. Guards, Hyderabad 500004.

Sangeeta Natak Akademi, Andhra Pradesh, Kala Bhavan, Saifabad, Hyderabad 500004.

Social Welfare, Indian Conference of, Red Hills, Hyderabad 500004.

Telugu Writers Conference, All India, 208, New Bhoiguda, Secunderabad 500003.

Tourist Information Centre, International, Maddireddi Niwas, Jagannadhapuram, Machilipatnam 521001.

Tuberculosis Association of Andhra Pradesh, 3-4-760, Barkatpura, Hyderabad 500027.

Young India Society, 5-8-544/1, Abid Rd., Hyderabad 500001.

EDUCATIONAL AND RESEARCH

Administrative Staff College of India, Bella Vista, Hyderabad 500004.

Provides trg. to senior executives from private & public sectors and Govt.; management consultancy service; conducts research in management problems. *Principal :* N. P. Sen.

American Studies Research Centre, Liberty Bldg., Osmania Univ., Hyderabad 500007.

Maintains a comprehensive library on American civilization for the benefit of Indian scholars and teachers. *Director :* Dr. Vern Wagner.

Archaeological & Agricultural Research Institute, Birla, 3-5-906, Himayatnagar, Hyderabad 500029.

Defence Metallurgical and Research Laboratory, Yakutpura, Hyderabad 500033.

Engineers (India), Institution of, A. P. Centre, Khairatabad, Hyderabad 500004.

English & Foreign Languages, Central Institute of, Hyderabad 500007.

An autonomous Instt. set up by the Govt. of India to improve the teaching of English & other foreign languages in the country; to provide for the study thereof including literatures; to organise research & advanced courses. The Instt. runs Postgraduate Diploma courses in English Studies and the Teaching of English; Ph.D. & M.Litt. courses in Linguistics & Phonetics, English Language Teaching and English Literature; Certificate courses in

English (by correspondence) and in German, French & Russian for teachers of these languages; specialized trg. courses for interpreters & translators; and general proficiency courses in foreign languages. It offers facilities for research up to the Ph.D. level for students of other Univs.; produces textbooks & teaching materials, radio & TV lessons, tapes & video tapes; offers extn. & consultancy services to ednl. insttns.; coordinates the activities of Regnl. & State Instts. of English Language Teaching; organizes seminars & confces. & runs an Information Centre. *Dir.*, Ramesh Mohan.

Geoscience, Indian Academy of, C/o Geology Deptt., Osmania Univ., Hyderabad 500007.

Historical Research Society, Andhra, Rajahmundry 533101.

Industrial Safety & Productivity, Institute of, A. C. Guards, Hyderabad 500004.

Instructors, Central Training Institute of, I. T. I. Bldg., Mallepally, Hyderabad 500001.

Kendra Sanskrit Vidyapeeth, Tirupathi 517501.

Natural Resources Development Co-op. Society Ltd., 10-2-289/9, First Main Rd., Shantinagar, Hyderabad 500028.

Nutrition, National Institute of (ICMR), Jamai Osmania, Hyderabad 500007.

Principal research and trg. centre on Nutrition for South & South East Asia. Publications include *Nutrition (Quarterly)*, Diet & Nutrition Atlases of India. *Dir.*, Dr. S. G. Srikantia.

Oil Technological Research Institute, Anantapur 515001. Run by the A. P. Govt. Conducts research on vegetable oils, fats & allied products. Technical advice and service on problems relating to oil technology are offered.

Oilseeds Development Council, Indian, Telhan Bhavan, Himayatnagar, Hyderabad 500029.

Plant Engineers (A.P. Centre), Indian Institute of, 69/H, Management House, Opp. Telephone Exchange, Secunderabad 500003.

Preventive Medicine, Institute of, Narayanguda, Hyderabad 500029.

Public Enterprises, Institute of, New Bldg., Zainyar Jung Circle, Osmania Univ. Campus, Hyderabad 500007.

Regional Research Laboratory, Hyderabad 500009.

Science, Andhra Pradesh Academy of, Ex-Physiology Block, Osmania Univ., Hyderabad 500007.

Science Association, Hyderabad, 36, Asifnagar, Hyderabad 500012.

Small Industries Service Institute, No. 3-4-812, Barkatpura, Hyderabad 500027.

Small Industry Extension Training Institute, Yuosufguda, Hyderabad 500038. Provides trg. in small industry devpt., management & extension; undertakes research & consultancy in related fields and provides documentation service to the small industry.

Tool Design, Central Institute of, Balanagar, Hyderabad 500037. Trg. of tool designers & tool makers; design & manufacture of tools, dies and moulds, etc.

Workers' Education Centre, 1-2-32, Domalguda, Hyderabad 500029.

Workers' Education Centre, Gokhale Rd., Visakhapatnam 530002.

ASSAM & MEGHALAYA

COMMERCIAL

Industrial Estate Users' Association, Industrial Estate, Tinsukia 786125.

Manufacturers Association, Assam, Gopinath Bardoloi Rd., Silpukhuri, Gauhati 781003.

Manufacturers Organisation, All India, Tinsukhia 786125.

Motor Traders' Association, Gauhati, A. T. Rd., Gauhati 781001.

Plywood Manufacturers Association, Assam, Banjiya Bhawan, Makum Rd., Tinsukia 786125.

Tea Chest and Plywood Manufacturers Association, East India, Margherita.

CULTURAL, SOCIAL AND PROFESSIONAL

Productivity Council, Assam, Digboi 786171.

Sangeet Natak Academy, Assam, Kismet, Upland Rd., Shillong 793001.

EDUCATIONAL AND RESEARCH

Engineering and Technology, H. R. H. The Prince of Wales Institute of, Jorhat 785001.

Historical Institute, Narayani Handiqui, Gauhati 781001.

Pasteur Institute and Medical Research Institute, Shillong 793001.

Science Society, Assam, Gauhati 781001.

Tea Research Association, Tocklai Experimental Stn., Jorhat 785001.

BIHAR

COMMERCIAL

Auto Dealers Association, Patna, Kenkarbagh Rd., Patna 800020.

Business Association, Hathwa Mkt., Patna 800006.

Cement Merchants' Association, Bihar, 55, Golghar, Patna 800001.

Coal Merchants' Association, Indian, P. Box 113, Jharia.

Colliery Owners' Association, Indian, Post Box 70, Dhanbad 826001.

Industries Association, Bihar, Sinha Library Rd., Patna 800001.

Iron and Steel Registered Stock Holders Association, Bihar, Govind Mitra Rd., Patna 800004.

Marketing Union Ltd., Bihar State Co-operative, West Lawn, Patna 800001.

Motor Dealers Association, Ranchi 834001.

Paper Merchants' Association, Bihar, Yadav Bhavan, (Alam Kothi), Nayatola, Patna 800004.

Pipe Distributors' Association, Bihar, Govind Mitra Rd., Bankipore, Patna 800004.

Silk Mill Owners Association, Bhagalpur 812002.

Timber Traders Association, Purlia Rd., Ranchi 834001.

Wine Association, Bihar, Station Rd., Patna 800001.

CULTURAL, SOCIAL AND PROFESSIONAL

Engineers, Institution of, Jamshedpur 831001.

Engineers (India), Institution of, Hardinge Rd., Patna 800001.

Medical Association, Indian, IMA Bldg., Medical Assocn. Rd., Patna 800004.

Nava Nalanda Mahavihara, Nalanda (Patna Dist.).

Productivity Council, Jamshedpur, 39–41, Tisco Guest House Annexe, Jamshedpur 831001.

Productivity Council, North Bihar, Muzaffarpur 842001.

Productivity Council, Patna, Fraser Rd., Patna 800001.

Social Welfare, Indian Council of, Dr. A. Besant Rd., Patna 800004.

Teachers' Federation, All India Secondary, 28, Legislative Colony, Patna 800001.

EDUCATIONAL AND RESEARCH

Agricultural Sciences, Bihar Academy of, P.O. Sabour, Bhagalpur 812002.

Cultural Studies, Indian Institute for, P. O. Mandar Vidyapith, Bhagalpur Dist.

Foundry & Forge Technology, National Institute of, P.O. Hatia, Ranchi 834003. Set up with the UNESCO-UNDP assistance & under admve. control of the Min. of Edn., Govt. of India, *Functions :* Imparts industrially oriented specialised trg. on foundry, forge and related fields and post diploma and post-graduate level to technicians, instructors, engineers, engg. specialists and undertakes research development work pertaining to foundry and forge; carries out consultancy services for developing newer techniques for production, control and inspection of castings & forgings: a Documentation & Information Centre for catering to informational, bibliographical & documentation needs of foundry & forge edn., industry & research. *Dir.*, Dr. S. S. Khanna.

Hydraulic & Allied Reseach, Bihar Institute of, Patna 800001.

Industrial Designs, Institute of, Patna 800001.

Industrial Supervisory Management, Institute of, Tisco Staff Trg. Institute, Jamshedpur 831001.

Medical Sciences, Rajendra Prasad Memorial Research Institute of, Agam Kuan, Patna 800007.

Personnel Management, Indian Institute of, 36, Tisco Guest House Annexe, Jamshedpur 831001.

Prakrit, Jainology and Ahimsa, Research Institute of, Vaishali.

Public Health Institute, Patna 800004.

Research Institute, K. P. Jayaswal, Museum Bldgs., Patna 800001.

Rural Institute, Birouli, (Darbhanga Dist.)

Safety in Mines, National Council of, P. Box No. 82, Dhanbad 826001.

Silk Institute, Government, Bhagalpur 812001.

Soil Conservation Research, Adm. & Trg. Centre, P.O. Jogbani. (Purnea Dt.).

Soil Conservation Society of India, 15, Bayley Rd., Patna 800001.

Vaccine Institute and Pasteur Institute, Government, Namkum, Ranchi 834001.

Yogoda Sat-Sanga Vidyalaya, Ranchi 834001.

DELHI

COMMERCIAL

Agricultural Association of India, C/o I. C. A. R., Krishi Bhavan, New Delhi 110001.

Agricultural Co-operative Marketing Federation Ltd. (NAFED), National, Sapna Bldg., 54, East of Kailash, New Delhi 110024.

Sponsored by the Govt. of India & consists of all the State Co-op. Marketing Fedns., Societies, Central Govt. & National Co-op. Devpt. Corpn. Promotes co-op. mktg;. assists its constituents by undertaking Inter-State, Intra-State & Intnl. Trade in Agricultural, Horticultural and Forest Produce, Farm Inputs, Agricultural Machinery & Implements, ensuring fair returns to the farmers; arranges supply of food-grains to deficit areas, processing and storage of food-grains, fresh fruits & vegetables; conducts mkt. research and disseminates information on co-op. mktg. etc. Setting up of Fruit & Vegetable Processing Factory & Cold Storage in New Delhi and a Jute Mill in Orissa jointly with Indl. Devpt. Corpn. of Orissa. Branches at various important sea ports & terminal markets in the country. *Branch Offices :* 1) Raj Mahal, 85, Veer Nariman Rd., Bombay 400020; 2) 20, British Indian St., Calcutta 700001; 3) 14/10–B, Palluruthy Rd., Mattancherry, Cochin 682002; 4) 312/313, Linghi Chetty St., Madras 600001; 52423/29. Surekha Bldg., Shradhanand Mrg., Delhi-110006; 6) 5–2–68 Jambagh, Hyderabad 500001; 7) Panchali Kumarpara, Gauhati 781009; 8) Shivaji Rd., Nasik Rd. 422001; 9) Agricultural Machinery Divn., 24-B/S, Deshbandhu Gupta Rd., Karol Bagh, New Delhi 110005; 10) Tractor-Combine Station-cum-Service Centre & Cold Storage, 7 & 8, Lawrence Rd., Ind. Area, Delhi 110035; 11) Fruit Yard & Auction Centre, D-392, New Fruit Mkt., Azadpur, Delhi 110035. *Liaison Offices :* 1) Golimar Garden, Bhawani Singh Road, Jaipur; 2) Kothi No. 10, Sector 19A, Chandigarh; 3) Laj Bhavan, Sanyogitaganj Mandi, Indore; 4) D-S 10, Nirala Nagar, Lucknow 226007.

Agriculture Machinery Association of India, B-100, Defence Colony, New Delhi 110024.

Air-Conditioning & Refrigeration Association of India, D-180, Defence Colony, New Delhi 110024.

Automobile Association of Upper India, Lilaram Bldgs., 14-F, Connaught Place, New Delhi 110001.

Automobile Spare Parts Dealers Associations, Federation of All India, 3620/21, Netaji Subhas Mrg., Delhi 110006.

Automotive Parts Merchants Association, 60, Guru Nanak Mkt., K. Gate, Delhi 110006.

Ayurvedic and Siddha Medicines, Federation of Manufacturers of, 91-A, Kamla Nagar, Delhi 110007.

Biscuit Manufacturers of India, Federation of, 17, Alipur Rd., Delhi 110006.

Booksellers' Assocn., Delhi State, C/o Students' Stores, Kashmere Gate, Delhi 110006.

Booksellers and Publishers Association, All India, 17-L, Connaught Circus, New Delhi 110001.

Brick Kiln Owners Assocn., Delhi, 1E/21, Jhandewalan, New Delhi 110055.

Brick and Tile Manufacturers, Federation of All India, 1-B/21, Jhandewalan Extn., New Delhi 110055.

Chemical Importers and Dealers Association, 1309, Tilak Bazar, Delhi 110006.

Chemists Association, Delhi State, 1428, Chandni Chowk, Delhi 110006.

Cigarette Manufacturers' Association, Indian, Tobacco House, 3-18, Lajpatnagar III, New Delhi 110024. *Chmn.*, Pratap Narsee; *Hon. Secy.*, Roshanlal Jaswal.

Commercial Association, All India, Daryaganj, Delhi 110006.

Corrugated Box Mfrs. Association, Northern India, A-37, Phase II, Naraina Industrial Area, New Delhi 110028.

Cottage Industries Association, Central, Janpath, New Delhi 110001.

Cotton Textile Mills Association, Northern India, Phelps Bldg., 9-A, Connaught Place, New Delhi 110001.

Cycle Dealers Association, Delhi, 487, Esplanade Rd., Delhi 110006.

Delhi Industries, Federation of, 61/2, Raj Nagar, New Delhi 110060.

Distillers' Association, All India, H-37, Connaught Circus, New Delhi 110001.

Electrical Contractors, Association of, Chopra Mansion, Dr. Ambedkar Rd., 2-E/1, Jhandewalan Extn., New Delhi 110055.

Electrical Dealers, Federation of Delhi, 1751, Elec. Mkt., Chandni Chowk, Delhi 110006.

Electrical Traders' Association, Delhi, 1548, Elec. Mkt., Chandni Chowk, Delhi 110006.

Electronic Component Industries Association, C-40, South Extn. II, New Delhi 110049.

Employers, All India Organisation of, Federation House, New Delhi 110001.

To promote & protect the indl. devpt. of India by studying various problems relating to trade, industry & labour and advising the Central & State Govts. suitably. *Secy. Genl.:* G. L. Bansal; *Addl. Secy. Genl.:* P. Chentsal Rao.

Employers' Assocn., United Industrial, 1870, Haveli Jugal Kishore, Chandni Chowk, Delhi 110006.

Employers' Federation of India (N. Region), Phelps Bldg., 9-A, Connaught Place, New Delhi 110001.

Engineering Association of Northern India, 161, Kamla Market, New Delhi 110001.

Engineering Industry, Association of Indian, Phelps Bldg., 9-A, Connaught Place, New Delhi 110001.

Exercise Book Manufacturers' Association, All India Federation of, R-63, Greater Kailash I, New Delhi 110048.

Export Organisations, Federation of Indian, Allahabad Bank Bldg., 17, Parliament St., New Delhi 110001. To serve as a common forum for exporting interest in India & to render common services in respect of the activities of its constitutent members.

Factory Owners' Federation, Delhi, Phelps Bldg., Connaught Place, New Delhi 110001.

Fertiliser Association of India, Near J. L. Nehru Univ., New Delhi 110057.

Fertiliser Co-operative Ltd., Indian Farmers, N-11, South Extn. (I), New Delhi 110049. A multiunit Co-op. Society with the object of manufacturing chemical fertilisers on a large scale. The first two projects at Kandla and Kalol in Gujarat State for manufacture of NPK Urea are already in production. A further Urea Project at Phulpur in U.P. is in planning stage. *Mg. Dir.:* Paul Pothen.

Food Preservers' Association, All India, 2254, Rajguru Rd., New Delhi 110055.

Foodgrain Dealers' Associations, Federation of All India, 3979, Naya Bazar, Delhi 110006.

Forwarding & Clearing Agents Assocn., Delhi, S. Nand Mrg., Delhi 110006.

Galvanizers Association, Indian Hot Dip, B5/27, Safdarjung Enclave, New Delhi 110016.

General Merchants Assocn., Wholesale, 38C, Swadeshi Mkt., S. Bazar, Delhi 110006.

Glass Manufacturers' Federation, All India, H. Block, Gobind Mansion, Connaught Circus, New Delhi 110001.

Glassware Merchants Association, Delhi, Fatehpuri, Delhi 110006.

Grain Merchants' Assocn., Delhi, 156/41, Naya Bazar, Delhi 110006.

Handicrafts Exporters' Association, 32, Park Area, Karol Bagh, New Delhi 110005.

Handloom Co-op. Industrial Society Ltd., Delhi, C94, Sudershan Park, Motinagar, New Delhi 110015.

Hotel and Restaurant Association of India, Federation of, 15-A, Nizamuddin West, New Delhi 110013.

Industrial Co-operatives, National Federation of, F-24 NDSE, Part I, New Delhi 110049. Exports & inland mktg. of co-optve. products. Import of raw materials.

Industrial Relations, Shri Ram Centre for, 5, Sadhu Vibhag Marg, New Delhi 110005.

Instrument Manufacturers and Dealers Association, All India, 26, Asaf Ali Rd., New Delhi 110001.

Investment Centre, Indian, Jeevan Vihar Bldg., Parliament St., New Delhi 110001.

To stimulate the flow of foreign private capital and technical know-how into India within the framework of Government policies by obtaining suitable collaboration for joint ventures in India; also disseminates information on commercially viable indigenous technologies to the prospective investors; provides effective assistance to Indian entrepreneurs for the setting up of joint ventures abroad either on their own technology or as joint ventures in third countries in collaboration with suitable foreign concerns. The Centre assists Public Sector Undtkgs., State Indl. Corpns. & private institutions in locating suitable foreign partners to obtain technological skills, experts and in negotiating terms of collaboration, etc. The IIC brings out a monthly 'Newsletter' containing important topics on economic and industrial climate of the country besides profiles on developing countries and on products having scope for investment for the benefit of the prospective entrepreneurs. The IIC also publishes, from time to time, authentic condenstation of Indian Company Law, Indl. Licensing Policy, Foreign Investment & Collaboration Guidelines, Taxes & Incentives, Labour Legislation, Specialized Financial Institutions and facilities to nonresident Indians, etc. *Branch Office:* 19, Netaji Subhas Rd., Calcutta 700001. *Overseas Offices:* 708, Third Avenue, New York, N.Y. 10017, U.S.A.; Karlstrasse 76, Duesseldorf-4. (W. Germany); 40, Great Portland St., London WIN 5 AH & Embassy of India, 2-11, Kudan Minami, 2-Chome, Chiyado-Ku, Tokyo (Japan). *Chmn.:* R. S. Bhatt; *Exec. Dir.*, T. N. Chaturvedi.

Iron and Hardware Merchants' Association, Delhi, 3610, Loha Bhavan, Chawri Bazar, Delhi 110006.

Iron and Steel Exporters Association, Japan, W-50, Greater Kailash, New Delhi 110048.

Jewellers Association, Delhi, 9-A, Sunder Nagar Mkt., New Delhi 110003.

Lime Manufacturers Association of India, 10, Alipur Rd., Delhi-110054.

Machinery Merchants' Association, General, 76, Shraddhananda Mrg., Delhi 110006.

Manufacturers Organisation, All India, Arya Bhavan, Jorbagh, New Delhi 110003.

Master Printers, All India Federation of, E-14, Third Flr., South Extn., Part II, New Delhi 110049.

Mercantile Association, Delhi Fents, 1090, Kucha Natwan, Chandni Chowk, Delhi 110006.

Mercantile Association, Delhi Hindustani, 641/1213, Chandni Chowk, Delhi 110006.

Metal Forging Assocn. of India, 2-E/14, Jhandewalan Extn., New Delhi 110055.

Mineral Industries, Federation of Indian, 7, South Extn., Part I, New Delhi 110006.

Motor Traders Association, Delhi, Post Box 1098, Kashmere Gate, Delhi 110006.

Paint Merchants' Association, Delhi, C/o Lalit & Co., Fatehpuri, Delhi 110006.

Paper Merchants Association, (Regd.), IX/65, Chawri Bazar, Delhi 110006.

Pesticides Association of India, 20, Ring Road, Lajpatnagar IV, New Delhi 110024.

Printers' Association, Delhi, 26-A, New Central Market, New Delhi 110001.

Publishers & Booksellers Associations in India, Federation of, 4833/24, Govind Lane, Ansari Rd., Delhi 110006.

Radio Merchants Association, All India, 21, Ansari Rd., Daryaganj, Delhi 110006.

Radio & Sound Equipment Mfrs'. Association, Small Scale, Radio Spares, Bhagirath Palace, Chandhi Chowk, Delhi 110006.

Rang Rasayan Vyapar Sangh, Katra Tobacco, Khari Baoli, Delhi 110006.

Refrigeration Trades Association, C/o National Refrigeration Works, 3, Netaji Subhash Mrg., Delhi 110006.

Roads & Transport Development Association, Indian (N. Region), Phelps Bldg., 9-A, Connaught Place, New Delhi 110001.

Roller Flour Millers' Federation of India, 6, Todarmal Lane, Bengali Mkt., New Delhi 110001.

Rolling Stock Export Association, Chander Lok Bldg., Janpath, New Delhi 110001.

Science Apparatus Dealers' Assocn., C/o Sindsagar Industries, Inside Sultansingh Bldg., K. Gate, Delhi 110006.

Scientific Equipment Trade Association, C/o CZ Instruments (India) P. Ltd., 4/2B Jawala Mansion, Asaf Ali Rd., New Delhi 110001.

Shippers Council, All India, Federation House, New Delhi 110001.

Small Industries Association, New Rohtak Rd., 30, New Rohtak Rd., New Delhi 110005.

Small Industries of India, Federation of Associations of, 23/B 2, New Rohtak Rd., New Delhi 110005.

Soap Makers' Assocn., Delhi Small Scale, 3/70, Roopnagar, Delhi 110007.

Steel Re-rollers Assocn., All India, 16/783, D. B. Gupta Rd., New Delhi 110055.

Steel Re-rolling Mills Assocn., C-50, Anand Niketan, New Delhi 110023.

Sugar Factories Limited, National Federation of Co-operative, L-8, S. Extn., Part II, New Delhi 110049. *Pres.* : R. L. Shukla ; *V. Pres.* : Dr. D. K. Patel ; *Mg. Dir.*, N. S. Jain.

Sugar Mills Association, Indian, A-7, NDSE Co-op. Colony, South Extn., Part I, Ring Rd., New Delhi 110049.

Tea Association, Indian, 12/48, Malcha Marg., New Delhi 110021.

Textile Retailers' Assocn., Delhi Provincial, Queens Garden, Delhi 110006.

Tractor Parts Merchants Association, All India, 39-B/1532, Shiv Ashram, S. P. Mukherji Mrg, Delhi 110006.

Trade Associations, Federation of Sadar Bazar, 665, St. No. 11, Sadar Bazar, Delhi 110006.

Traders Association, New Delhi, 11, Babar Lane, New Delhi 110001.

Transporters' Association, Delhi, 11, Gokhale Mkt., Delhi 110006.

Vegetable Oil Traders Association, Delhi, 73, Memwali Gali, Katra Baryan, Delhi 110006.

CULTURAL AND SOCIAL

Adimjati Sevak Sangh, Bharatiya, Dr. Ambedkar Mrg, Jhandewalan, New Delhi 110055.

Afro-Asian Solidarity, Indian Association for, 6, Jamuna Bhavan, Asaf Ali Rd., New Delhi 110001.

Anglo-Indian Association, All India, Bombay Life Bldg., Connaught Circus, New Delhi 110001.

Author's Guild of India, F-64, Sujan Singh Park, New Delhi 110003.

Badminton Assocn., Delhi State, 208/5, D. B. Gupta Rd., New Delhi 110055.

Bahai's of India, National Spiritual Assembly of, 6, Canning Rd., New Delhi 110001.

Baptist Mission Convention in India, 5, Daryaganj, Delhi 110006.

Better Life, International Organisation for, U-19, Green Park Extn., New Delhi 110016.

Blood Bank Organisation, 4, Pusa Rd., New Delhi 110005.

Boy Scouts Association, All India, 7, Jangpura B Extn , Mathura Rd., New Delhi 110014.

Cattle Welfare Society, All India, Cement Kuti, 58, Rangpura, New Delhi 110005.

Charitable Society, Smt. Shanta Kejariwal Smarak, Jaipuria Bldg., Kohlapur Rd., Delhi 110007.

Child Welfare, Delhi Council for, Qudsia Garden, Delhi 110006.

Child Welfare, Indian Council for, 4, Rouse Avenue, New Delhi 110001.

Children's Film Society — India, Sapru House, New Delhi 110001.

Christian Council of India, National, N21, Greater Kailash, New Delhi 110048.

Citizen's Advice Bureau, Community Hall, E. Patel Nagar, New Delhi 110008.

Citizen's Committee, Delhi Central, 329, Faiz Rd., Delhi 110005.

Co-operative Union Ltd., Indian, 35A D. S., N. Rajindra Nagar, New Delhi 110060.

Co-operative Union of India, National, 4/2, Kirtinagar, New Delhi 110015.

Correctional Services, Central Bureau of, Block-1, Wing 7, Ramakrishnapuram, New Delhi 110022.

Cultural Exchange Organisation, (India), International, M-138, Aggarwal Bldg., Con. Circus, New Delhi 110001.

Cultural Forum, International, 2653, Roshanpura Amirchand Mrg., Delhi 110006.

Cultural Organisation, National, A 20/1, Lodi Rd., New Delhi 110003. An all India cultural body to promote the advancement of our language, literature & art.

Cultural Relations, Indian Council for, Azad Bhavan, Indraprastha Estate, New Delhi 110001. To establish and strengthen cultural relations with other countries including adm. of Jawaharlal Nehru Award for Intl. Understanding ; presentation of books & Indian art objects to univs., libraries & museums in other countries, etc.; branch offices in Bombay, Calcutta, Madras & Bangalore ; Cultural Centres in Georgetown, Guyana ; Suva, Fiji ; & San Francisco, U.S.A. *Pres.* : Min. for External Affairs ; *Secy.* : Mrs. S. Kochar.

Cultural Relations, World Council for, 4517, Daiwara A. Chand Mrg., Delhi 110006.

Cultural Society, International, 24, North Avenue, New Delhi 110001.

Culture, International Academy of Indian, J-22, Hauzkhas Enclave, New Delhi 110016.

Culture Centre, International, M-1, Kanjan Junga Bldg., Barakhamba Rd., New Delhi 110001.

Cycling Association, Delhi, K-8, Lajpatnagar II, New Delhi 110024.

Dairy Science Association, Indian, W-111 A, Greater Kailash, New Delhi 110048.

Developing Societies, Centre for the Study of, 29, Rajpur Rd., Delhi 110006.

Drama and Asian Theatre Institute, National School of, Rabindra Bhavan, Ferozeshah Rd., New Delhi 110001.

Family Planning Association, New Delhi, 3, Hanuman Rd., New Delhi 110001.

Feroze Gandhi Memorial Society, All India, House 19, Village Sultanpur, New Delhi 110030.

Fine Arts & Crafts Society, All India, Old Mill Rd., Rafi Marg, New Delhi 110001.

Football Association, Delhi, 7, Kotla Rd., New Delhi 110001.

Ford Foundation, The, 55, Lodi Estate, New Delhi 110003. Assistance in the form of institutional grants directed toward human & natural resources development in rural & urban India, particularly in fields of agriculture, development plng. & management, population & education (Social Sciences).

Gandhi Smarak Nidhi, Rajghat, New Delhi 110001.

Harijan Sevak Sangh, All India, Kingsway, Delhi 110009.

Objects : To eradicate untouchability by truthful & non-violent means ; to serve Harijans so as to promote their moral, social & material welfare. During 1973-74 the Sangh got opened 574 temples, 85 'dharamshalas', 916 wells & tanks, and 1210 hotels & restaurants. It persuaded 485 barbers and 2250 washermen to serve Harijans. It conducts 93 hostels which include 25 for girls. Besides it conducts 3 Industrial Trg. Centres, 30 Co-op. Societies & 418 'balwadis' & 'Sanskar Kendras'. It also runs 373 nutrition centres for poor Harijan children. *Pres. :* Viyogi Hari ; *Secy. :* Shankarlal Joshi.

Hockey Association, Delhi, Gate 7, Shivaji Stadium, New Delhi 110001.

Hostels Association of India, National, 5, Nyaya Mrg., Chanakyapuri, New Delhi 110021.

Hostels Assocn. of India, Youth, 2, E. Park Rd., New Delhi 110005.

Housewives Association, Indian, B-79, Defence Colony, New Delhi 110024.

Indian Standards Institution, Manak Bhavan, 9, Bahadur Shah Zaffar Marg, New Delhi 110001.

Branch Offices : 'Sadhna', Nurmohamed Shaikh Mrg., Khanpur, Ahmedabad, 380001 ; 'F' Block, Unity Bldg., Narasimharaja Square, Bangalore 560002 ; Novelty Chambers, Grant Rd., Bombay 400007 ; 5, Chowringhee Approach, Calcutta 700013 ; Flat 1030-31 (1st Flr.,), Sector 22-B, Chandigarh 160022 ; 5-8-56/57, Nampally Stn. Rd., Hyderabad 500001 ; 117/418 B, Sarvodaya Nagar, Kanpur 208005 ; 54, General Patters Rd., Madras 600001 ; BCI Building (3rd Flr.), Gandhi Maidan East, Patna 800004. *Aims and Objects :* Preparation of standards relating to products, commodities, etc. and their promotion on national & intnl. basis. The Insttn. operates, under an Act of Parliament, ISI Certification Marks Scheme under which items manufactured in conformity with the relevant Indian Standards are certified with ISI Mark as a third-party assurance to the purchaser. The Insttn. also assists in developing in—plant standardization in industrial units, promotes ednl. utilization of Indian Standards, and imparts trg. in industrial standardization to scientits & technologists from developing countries. *Director-General :* S. K. Sen.

Indo-GDR Friendship Association, All India, Theatre Communication Bldg., Connaught Place, New Delhi 110001.

Indo-German Society, Federation of, Flat 7, 2nd floor, 10, Hailey Rd., New Delhi 110001.

Indo-Iran Society, 18, Tilak Marg, New Delhi 110001.

Indo-Palestine Solidarity Society, 4162, Urdu Bazar Delhi 110006.

Indo-Soviet Cultural Society, Jamna Bhavan, Asaf Ali Rd., New Delhi 110001.

Indo-U.S. Cultural Association, 8, Theatre Communication Bldg., Conn. Place, New Delhi 110001.

International Centre, India, 40, Lodi Estate, New Delhi 110003.

International Development, United States Agency for (AID), Mission to India, American Embassy, Chanakyapuri, New Delhi 110021.

Japan Information Centre, 10, K. Gandhi Marg, New Delhi 110001.

Lead/Zinc Information Centre, Indian, B5/27, Safdarjung Enclave, New Delhi 110016.

Library Association, Indian, C/o Delhi Public Library, S. P. Mukherji Marg, Delhi 110006.

Max Mueller Bhavan, Indo-German Cultural Centre, 3, K. Gandhi Marg, New Delhi 110001.

Music, Dance & Dramatics, Delhi Institute of, V-13, Rajouri Garden, New Delhi 110015.

Natya Sangh, Bharatiya, 34, New Central Mkt., Connaught Circus, New Delhi 110001.

Nomadic Tribes, All India Assocn. of Servants of, Rajendra Ashram, Patpar Ganj, New Delhi 110031.

Peace Council, All India, 6, Jamuna Bhavan, Asaf Ali Rd., New Delhi 110001.

Pinjrapole Society, Delhi, 9271, Kisanganj, Delhi 110007.

Prayer Fellowship, All India, Q3, Green Park, New Delhi 110016.

Ramakrishna Mission, Ramkrishna Ashram Mrg., New Delhi 110001.

Red Cross Society, Indian, 1, Red Cross Rd., New Delhi 110001. Relief work in times of flood, famine or epidemic; trg. of health visitors, nurses & *dais*, men & women in First Aid, Home Nursing etc. ; supply of amenity items to military & civil hospitals ; running a Red Cross Home at Bangalore for permanently disabled ex-servicemen ; Red Cross welfare services in military hospitals, maternity & child welfare, Junior Red Cross blood banks & health edn. *Secretary-Gen. :* Major Gen. S. S. Maitra.

Religions, World Fellowship of, 12, S. Bhagat Singh Mrg., New Delhi 110001.

Safety Association, National, M-89, Greater Kailash, New Delhi 110048.

Samarasa Sudha Sanmarga Sangam, B-7/58/1, Safdarjung Enclave, New Delhi 110016.

Sant Nirankari Mandal, Sant Nirankari Colony, Delhi 110009. To promote the feelings of Universal Brotherhood & equality amongst all human beings without caste, creed and colour through realisation of God & to develop equal respect for all the prophets & their holy scripts.

Scouts Association, All India Boy, 7, Jangpura B Extn., Mathura Rd., New Delhi 110014.

Scouts and Guides, Bharat, 16, Ring Rd., Indraprastha Estate, New Delhi 110001.

Servants of the God, Society of, Yeshwant Place, Satya Mrg., Chanakyapuri, New Delhi 110021.

Servants of the People Society, Lajpat Bhavan, Lajpat Nagar, New Delhi 110024.

Sewak Samaj, Bharat, 9-A, Theatre Communication Bldg., Connaught Place, New Delhi 110001. A national social organisation, non-political & non-official in character, started in 1952 to mobilise people's support, co-opn. & participation for the success of the national plans. The Samaj has a youth wing called Bharat Yuvak Samaj. The Samaj is now mainly engaged on the programme of Relief and Reconstruction including Food for Work Projects, such as construction of wells, tanks, bunds, irrigation channels, roads, small school bldgs., Panchayat Ghars, etc. and establishment of Model Community Farms & Ashrams for carrying on social welfare activities in the villages round about them, on the lands donated by individual land owners & village panchayats. The activities of the Samaj also cover the field of Edn. and Medical & Slum Service.

Social Guidance, Institute for, 2-F, Lajpat Nagar, New Delhi 110024.

Social Institute, Indian, D/25D, NDSE., Part 11, New Delhi 110049. *Purpose :* Research ; publications ; labour welfare & management courses ; trg. in co-opn. ; promotion & organisation of socio-economic projects ; family life edn. *Publication :* *Social Action* (Quarterly).

Social Welfare, Delhi Council for, 31, Netaji Subhas Mrg., Delhi 110006.

Social Welfare, Indian Council of, 6, Lytton Lane, New Delhi 110001.

Sports, All India Council of, C/o Ministry of Education, New Delhi 110001.

St. John Ambulance Association and St. John Ambulance Brigade, 1, Red Cross Rd., New Delhi 110001. *Objects :* Imparts trg. in First Aid, Home Nursing, Hygiene & Sanitation, Mothercraft & Child Welfare. *Activities :* To render first aid to persons in cases of accidents or emergencies ; Gives direct support to health services and offers relief to suffering, sick & injured people in peace & war. *Commissioner-in-Chief & Secy.-Genl. :* Maj.-Gen. S. S. Maitra.

Students' Federation, All India, 4/7, Asaf Ali Rd., New Delhi 110001.

Swami Sivananda Cultural Association, Sivananda Bhavan, Amar Colony, Lajpat Nagar IV, New Delhi 110024.

Table Tennis Federation of India, National Stadium, New Delhi 110001.

Tennis Association, All India Lawn, 7/3, Asaf Ali Rd., New Delhi 110001.

Tibetan Industrial Rehabilitation Society, 14, Birbal Rd., Jangpur, New Delhi 110014.

United Nations Associations, Indian Federation of, 15, Janpath Barracks, New Delhi 110001.

University Students of India, National Council of, F13, NDSE., Part II, New Delhi 110049.

Women, National Federation of Indian, 1002, Ansal Bhavan, 16, K. Gandhi Mrg., New Delhi 110001.

Women in India, National Council of, F/16, Hauz Khas Enclave, New Delhi 110016.

Women's Association, Young, C-3, Safdarjung Enclave, New Delhi 110016.

Women's Conference, All India, Sarojini House, 6, Bhagwandass Rd., New Delhi 110001. To work for a society based on the principles of social justice, personal integrity and equal rights & opportunities for all. To secure recognition of the inherent right of every human being to work & to the essentials of life. To work actively for the general progress & welfare of women & children and to support the claim of every citizen to the right to enjoy basic civil liberties. *Pres.:* Mrs. K. Lakshmi Raghuramaiah.

Women's Welfare Assocn. of India, Young, 1, Atul Grove Rd., New Delhi 110001.

World Co-operation and Cultural Relations, Indian Federation for, 2665/2, Mandir Wali Gali, New Delhi 110008.

YMCA's of India, National Council of, Massey Hill, Jai Singh Rd., New Delhi 110001.

Young Friends' Assocn., Delhi, 3/1, Asaf Ali Rd., New Delhi 110001.

Young Women's Christian Association of India, K-13, Lajpatnagar II, New Delhi 110024.

Young Workers, Indian National Council for, 17, Janpath, New Delhi 110001.

Youth, Indian Assembly of, Viswa Yuvak Kendra, Circular Rd., New Delhi 110027.

Youth, United Nations Council of, 10, Sunder Nagar, New Delhi 110003.

Youth Association, United Nations, 5219, Kohlapur Rd., Delhi 110007.

Youth Centre, International, Circular Rd., Chanakyapuri, New Delhi 110021.

Youth Congress, All India Rural, 52, Basti Harphool Singh, Delhi 110006.

Youth Council of India, 48/7, Shopping Centre, Malcha Mrg., New Delhi 110021.

Youth Federation of India, 4/7, Asaf Ali Rd., New Delhi 110001.

Youth Welfare Society, 11, J. H. Bldg., Chandni Chowk, Delhi 110006.

PROFESSIONAL AND MEDICAL

Aeronautical Society of India, 13-B, Indraprastha Estate, New Delhi 110001.

Agriculture & Biology, Indian Society for Nuclear Techniques in, Indian Agricultural Research Instt., New Delhi 110012.

Applied Politics, Centre of, 9B, Theatre Communication Bldg., Conn. Place, New Delhi 110001.

Astronomical Association, Indian, 704, Military Rd., Anand Parbat, New Delhi 110005.

Ayurvedic Congress, All India, Dhanwantri Bhavan, Rd. No. 66, Punjabi Bagh, New Delhi 110026.

Backward Classes Federation of India, B-118, Lajpatnagar, New Delhi 110024.

Bar Association, Supreme Court, Tilak Mrg., New Delhi 110001.

Bar Assocn. of India, Room 20, Supreme Court Bldg., New Delhi 110001.

Bar Council of Delhi, Patiala House, New Delhi 110001.

Bar Council of India, AB-21, Bahadur Shah Zaffar Mrg., New Delhi 110001.

Chartered Accountants of India, Institute of, Post Box 268, Indraprastha Marg, New Delhi 110001. *Pres. :* N. C. Krishnan, *V. Pres. :* P. N. Karielvala, *Ag. Secy.*, T. S. Grewal.

Chartered Engineers, Institution of, Anand Parbat, New Delhi 110005.

Company Secretaries of India, Institute of, 1, Rani Jhansi Rd., New Delhi 110055. The only body sponsored by the Deptt. of Company Affairs for the promotion and development of the profession of Company Secretaries in India. *Pres.:* L. R. Puri; *Secy. :* T. P. Subbaraman; *Adm. Officer :* N. S. Santhanam.

Consulting Engineers (India), Association of, 14, Asaf Ali Rd., New Delhi 110001.

Consumer Council of India, (an All India Organisation) 27, Safdarjang Rd., New Delhi 110011. To promote, organise & assist in measures for consumer protection; to study consumer problems and evolve remedies. *Chmn.*, Balgovind Verma ; *Dir.*, Dr. S. Krishnamurthy.

Consumers' Union, Indian, Institute of Marketing & Management, 62-F, Sujan Singh Park, New Delhi 110003.

Dental Council, Delhi, 2, Battery Lane, Delhi 110006.

Depressed Classes Federation of India, 6548, Qutab Rd., Delhi 110006.

Dermatologists & Venereologists, Indian Association of, All India Instt. of Medical Sciences, Ansari Nagar, New Delhi 110016.

Development Authority, Delhi, D-1, Vikas Bhawan, Indraprastha Estate, New Delhi 110001.

Engineers (India), Institution of, Bahadur Shah Zaffar Mrg., Near Tilak Bridge, New Delhi 110001.

Entomological Society of India, Indian Agricultural Research Institute, New Delhi 110012.

Entrepreneurs, National Alliance of Young, C-208, Green Park Extn., New Delhi 110016.

Epilepsy Association, Indian, Ansari Rd., Daryaganj, Delhi 110006.

Farmers' Association, Young, AI, Nizamuddin West, New Delhi 110013.

Free Trade Unions—Asian Regional Organisation, International Confederation of, (ICFTU–ARO), P-20, Green Park Extn., New Delhi 110016. Asian organization of free democratic trade unions, independent of all external domination & promoting interests of working people & assuring dignity of labour in Asia, affiliating twenty-eight trade union organisations from seventeen Asian countries with more than twenty million members. *Pres.* : P. P. Narayanan ; *Regnl. Secy.* : V. S. Mathur.

Freedom Fighters Samity, All India, 329, Faiz Rd., Karol Bagh, New Delhi 110005.

Gastro-Enterologists, Association of, All India Instt. of Medical Sciences, Ansari Nagar, New Delhi 110016.

Genetics & Plant Breeding, Indian Society of, Indian Agricultural Research Institute, New Delhi 110012.

Heart Foundation, All India, 4874, Ansari Rd., 24, Daryaganj, Delhi 110006.

Horticultural Society of India, Krishi Bhavan, New Delhi 110001.

Incorporated Accountants & Auditors of India, Society of, Incorporated Secretaries of India, Society of, Commercial University Ltd., Daryaganj, Delhi 110006.

International Law, Indian Society of, 7, Scindia House, New Delhi 110001.

Interpreters' Association, Indian Conference of, B-7/58/1, Safdarjung Enclave, New Delhi 110016.

Junior Chamber, Delhi, 12, Arya Niwas, Gole Mkt., New Delhi 110001.

Lalit Kala Akademi, National Academy of Art, Rabindra Bhavan, New Delhi 110001. To promote painting, sculpture, architecture & applied arts.

Law Association, International, Indian Law Institute, Bhagwandas Rd., New Delhi 110001.

Law Institute, Indian, Bhagwandas Rd., New Delhi 110001.

Malaria & Other Communicable Diseases, Indian Society of, 22, Alipore Rd., Delhi 110006.

Management Association, All India, 29, Nizamuddin East, New Delhi 110013. *Pres.*, S. C. Aggarwal; *V. Pres.*, K. K. Unni ; *Exec. Dir.*, A. P. Paul.

Management Association, Delhi, 1/21, Asaf Ali Rd., New Delhi 110001.

Mayors, All India Council of, B-48, Municipal Colony, Azadpur, Delhi 110033.

Medical Association, Delhi, Daryaganj, Delhi 110006.

Medical Association, Indian, I.M.A. House, Indraprastha Marg, New Delhi 110001.

Medical Representatives' Assocn., Delhi State, 1/39 Kirti Nagar, New Delhi 110015.

Mentally Retarded, Federation for the Welfare of, C/o Mrs. Char, Model School, Lajpatnagar, New Delhi 110024.

Motion Pictures Association, 52/55 Mangal Mkt., Film Colony, Chandni Chowk, Delhi 110006.

Motor Unions Congress, All India, 16-A, Asaf Ali Rd., New Delhi 110001.

Mountaineering Foundation, Indian, 18, Q. Block, New Delhi 110011.

Museums, International Council of (Regional Agency in Asia), 3/4, Sapru House Annexe, New Delhi 110001.

Neurological Society of India, Dept. of Neurosurgery, All India Instt. of Medical Sciences, Ansari Nagar, New Delhi 110016.

Newspaper Editors' Conference, All India, 50, Theatre Communication Bldg., Connaught Place, New Delhi 110001.

Newspaper Employees' Federation, All India, 29, New Central Mkt., Connaught Place, New Delhi 110001.

Newspaper Society, Indian and Eastern, I.E.N.S. Bldg., Rafi Marg, New Delhi 110001.

Nurses' Association of India, Trained, L-16, Green Park, New Delhi 110016.

Oil Technologists Association of India, DCM Chemical Works, Najafgarh Rd., New Delhi 110015.

Orthopaedic Association, Indian, All India Institute of Medical Sciences, Ansari Nagar, New Delhi 110016.

Otolaryngologists of India, Association of, All India Instt. of Medical Sciences, Ansari Nagar, New Delhi 110016.

Pathology, Indian Registry of, Deptt. of Pathology. Safdarjung Hospital, New Delhi 110003.

Peasants' Co-op. Multipurpose Society Ltd., Delhi, 5150, Ballimaran, Delhi 110006.

Penfriends, Nation's League of, 9E, Theatre Commuication Bldg., Con. Circus, New Delhi 110001.

Plant Biochemical Society, Nuclear Research Laboratory, Indian Agricultural Research Instt., New Delhi 110012.

Plant Morphologists, International Society of, Dept. of Botany, Univ. of Delhi, Delhi 110007.

Population, Indian Association for the Study of, C/o Dr. Ashish Bose, Instt. of Economic Growth, Univ. Enclave, Delhi 110007.

Population Council of India, 53, Lodi Estate, New Delhi 110003.

Press Council of India, 10, Janpath, New Delhi 110001. The Council functions as a quasi-judicial body for adjudication on complaints against newspapers, news agencies or journalists allegedly offending against journalistic ethics or public taste. It also considers complaints from newspapers, individuals or assns. against Govt. or any person, group or organisation of interference with the free functioning of the press. *Chmn.* : Justice N. Rajagopala Ayyangar ; *Secy.* : V. P. Malik.

Press Institute of India, Sapru House Annexe, Barakhamba Rd., New Delhi 110001. Set up in 1963 by

Indian newspapers to help the press improve itself through regular seminars, workshops, courses, consultancies, field study tours, pubns., research studies etc. for young & promising editorial & managerial personnel. *Dir.:* Chanchal Sarkar.

Productivity Council, Delhi, 1 E/2, Jhandewalan Rd., New Delhi 110055.

Productivity Council, National, 38, Golf Links, New Delhi 110003. NPC has eight Regnl. Directorates (Ahmedabad, Bangalore, Bombay, Calcutta, Delhi, Kanpur, Chandigarh & Madras) covering all the principal industrial areas of the country. NPC specialists at these regnl. centres serve Local Productivity Councils, professional and ednl. institutions, industrial, business, admve. & public utility establishments. *Exec. Dir.:* Dr. G. R. Dalvi.

Prohibition Council, All India, 28, Theatre Communication Bldg., Con. Circus, New Delhi 110001.

Psycho-Physical Therapy, Yoga Institute of, 2F, Lajpatnagar, New Delhi 110024.

Rifle Association of India, National, 82, Theatre Communication Bldg., Connaught Circus, New Delhi 110001.

Road Congress, Indian, Jamnagar House, Mansingh Rd., New Delhi 110011.

Road Transport Undertakings, Association of State, Jamnagar House, Shahjehan Rd., New Delhi 110011.

Rural Development, (AVARD), Association of Voluntary Agencies for, A-Z, Kailash, New Delhi 110048. Provides help in micro-level, socio-economic plng. & execution of rural devt. programmes in community devpt. blocks & cluster of villages; currently operating in more than a dozen project areas spread over half a dozen Indian States. *Press.*, Jayaprakash Narayan; *Gen. Secy.*, A. C. Sen; *Research Dir.*, S. D. Thapar.

Sahitya Akademi (National Academy of Letters), Rabindra Bhavan, 35 Ferozeshah Rd., New Delhi 110001. The Akademi awards prizes for outstanding literary works in 20 Indian languages, including English. The Akademi publishes a quarterly journal *Indian Literature* (in English) & a six-monthly *Samskrita Pratibha* (in Sanskrit). *Pres.:* Dr. S. K. Chatterji; *Vice-Pres.:* Dr. K. R. Srinivasa Iyengar; *Secy.:* Dr. P. Machwe.

Sangeet Natak Akademi, Rabindra Bhavan, 35 Ferozeshah Rd., New Delhi 110001.

The Akademi gives grants to various performing arts organisations, promotes research, sets up trg. institutions, organises seminars, festivals and subsidizes publications on music, dance & drama. It also has a publication programme & brings out a quarterly Journal "*Sangeet Natak*", on the Performing Arts. It has instituted a pilot research scheme in the acoustics of music & has undertaken an extensive programme for preservation of folk arts. It runs the National School of Drama with a 3-year broad-based trg. course in dramatics. It also runs — Jawaharlal Nehru Manipur Dance Academy — for the trg. in Manipuri dance at Imphal and — Kathak Kendra — for trg. in Kathak dance in Delhi. It gives every year 12 Awards to eminent artistes in the fields of music, dance & drama. *Chmn.:* K. P. S. Menon. *Secy.:* Dr. Suresh Awasthi.

Scheduled Castes, Scheduled Tribes and Other Backward Classes, All India Federation of, 118, Than Singh Nagar, New Delhi 110005.

Science Academy, Indian National, Bahadur Shah Zaffar Marg, New Delhi 110001. Promotion of scientific knowledge, co-ordination between various scientific bodies, safeguarding of the interests of scientists in India, representing internationally the scientific work of India; acting as the National Research Council of India for undertaking national & intnl. scientific work. *Pres.:* Dr. B. P. Pal; *Vice-Pres.:* Prof. M. R. N. Prasad, Dr. K. Venkataraman; *Treasurer:* Dr. A. R. Verma; *Foreign Secy.:* Dr. B. D. Nagchaudhuri; *Secs.:* Dr. A. B. Joshi, Dr. A. N. Mitra; *Editors of Pubns.:* Prof. L. S. Kothari, Prof. K. N. Saxena; *Exec. Secy.:* Dr. B. K. Nayar..

Science Teachers' Association, All India, Sardar Patel Vidyalaya, Lodi Estate, New Delhi 110003.

Scientific & Technical Literature, Indian Council for the Promotion of, 98, Mohan Singh Place, Kharak Singh Mrg., New Delhi 110001.

Sikhs' Federation, All India, 13-F, Ansari Mkt., Delhi 110006.

Social Health in India, Association for, 4, D. D. Upadhyaya Mrg., New Delhi 110001. To eradicate prostitution & other evils in relation thereto. To establish, maintain & assist Protective Homes and other Institutions for the shelter, trg. & rehabilitation of women & children in moral danger. To establish, maintain and assist Health Clinics for diagnosis, treatment and mass edn. for venereal diseases control; Family Life Instts. & Student Counselling Centres.

Soil Mechanics & Foundation Engineers, Indian National Society of, Curzon Road Barracks, New Delhi 110001.

Soil Science, Indian Society of, Indian Agricultural Research Institute, New Delhi 110012.

Soyabean Processors' Assocn. of U.S.A., 349, Greater Kailash, New Delhi 110048.

Sports, National Institute of, National Stadium, New Delhi 110011.

Student Union of India, National, 7, Jantar Mantar Rd., New Delhi 110001.

Surveyors, Institution of, C/o Chief Engr, Delhi Zone, Delhi Cantt., New Delhi 110010.

Surveyors, National Institute of, 24/66, W. Patel Nagar, New Delhi 110008.

Teachers' Federation, All India Secondary, K-30, Green Park, New Delhi 110016.

Teaching Profession, World Confederation of Organisations of, 16A/10, W.E.A., New Delhi 110005.

Telecommunication Engineers, Institution of, 148, Flat 2, Instt. Area, Lodi Rd., New Delhi 110003.

Tuberculosis Association of India, 3, Red Cross Rd., New Delhi 110001. Twenty-three State Tuberculosis Assns. are affiliated to it. It runs the Lady Linlithgow Sanatorium, Kasauli, Simla Hills; the New Delhi T.B. Centre, New Delhi and Lala Ram Sarup T.B. Hospital, Mehrauli (Delhi). *Secy.-Genl.:* B. M. Cariappa.

Valuers, Institution of, Anand Parbat, New Delhi 110005.

Wild Life, Indian Board for, Ministry of Agriculture, Krishi Bhavan, New Delhi 110001.

Working Journalists, Indian Federation of, 29, New Central Market, Connaught Circus, New Delhi 110001.

World Affairs, Indian Council of, Sapru House, Barakhamba Rd., New Delhi 110001.

World Federalists, World Assocn. of, 1, Atul Grove Rd., New Delhi 110001.

Zinc Alloy Die Casting Society, B5/27, Safdarjung Enclave, New Delhi 110016.

EDUCATIONAL AND RESEARCH

Adult Education Association, Indian, 17-B, Indraprastha Marg, New Delhi 110001.

Aeronautics and Aviation Electronics, Indian Institute of, 73, Khan Market, New Delhi 110001.

Agricultural Research Statistics, Institute of, Library Avenue, New Delhi 110012.

Agricultural Statistics, Indian Society of, C/o Instt. of Agricultural Research Statistics, Library Ave., New Delhi 110012.

Agronomy, Indian Society of, Indian Agricultural Research Institute, New Delhi 110012.

Applied Economic Research, National Council of, Parisila Bhavan, 11, Indraprastha Estate, New Delhi 110001. An autonomous orgn. estd. in 1956, which undertakes sponsored research work — mainly from Central and State Govts, public undertakings & private enterprises — besides projects on its own initiative. It has so far done about 280 projects of which 200 have been published. The areas of research cover almost all aspects of economic devpt. & plng., such as agriculture, industry, trade, transport, energy, employment, public finance and financial infrastructure. The Council runs a quarterly journal 'Margin'; its Oct. & Feb. issues review, in particular, the developments in the country's economy. *Dir.-General*, Prof. M. V. Mathur.

Applied Manpower Research, Institute of, Indraprastha Estate, Ring Rd., New Delhi 110001.

To advance knowledge about the nature, characteristics & utilisation of human resources in India; to provide a broad perspective of requirement of trained manpower for economic devpt. in different fields with due regard to the probable impact of technological changes on the pattern of employment; and to develop improved methods & techniques for the trg. & devpt. of the existing work force; ednl. preparation for devpt. of highly talented persons and forecasting demand & supply of manpower and connected matters.

Arbitration, Indian Council of, Federation House, New Delhi 110001.

Architects, Indian Institute of Landscape; Architects, Institute of Incorporated, Institute of Architects, 3, Court Lane, Court Rd., Delhi 110006.

Audio-Visual Education, National Institute of, Indraprastha Estate, New Delhi 110001.

Bal Bhavan Society, Kotla Rd., New Delhi 110001.

Blindness, National Society for the Prevention of, Ansari Nagar, New Delhi 110016. To conduct research & investigate causes of blindness or impaired vision; to advocate measures and engage in community service activities for the control or elimination of the causes of blindness; to disseminate knowledge concerning the care & use of eyes.

Book Trust, National, A-5, Green Park, New Delhi 110016. An autonomous body set up by the Min. of Edn. for creating a movement in the country to make the people more and more book-minded. The Trust produces & encourages the production of good literature and tries to make such literature available at moderate prices to the public. Over 1,000 books under well-planned series have been published. *Chmn.:* Dr. S. Gopal; *Dir.:* Samuel Israel.

Cement Research Institute of India, M-10, S. Extn., Ring Rd., New Delhi 110049.

Chinese Studies, Centre for, Delhi Univ., Delhi 110007.

Constitutional and Parliamentary Studies, Institute of, 18, Vithalbhai Patel Marg, New Delhi 110001.

Criminology, Institute of Forensic, E-12/3, Vasant Vihar, New Delhi 110057.

Dairy Development Board, National, WIII/A, Greater Kailash, New Delhi 110048.

Defence Studies & Analyses, Institute of, Sapru House Annexe, New Delhi 110001.

Developing Societies, Centre for the Study of, 29, Rajpur Rd., Delhi 110006.

Economic Growth, Institute of, Univ. Enclave, Delhi 110007.

Educational Planning & Administration, Asian Institute of, Indraprastha Estate, New Delhi 110001.

Family Planning, National Institute of, L-17, Green Park, New Delhi 110016. A para-govtl. insttn. established for the purpose of strengthening various technl. aspects of the national family plng. programme. The Instt. undertakes trg., research, evaluation & demonstration activities and also provides services such as evaluation, information & consultation to other agencies. *Dir.:* Dr. R. K. Sanyal.

Foreign Languages, Institute of, 1/3 NDS, Lajpat Nagar, New Delhi 110024.

Foreign Trade, Indian Institute of, H-24, Green Park Extn., New Delhi 110016. Its principal activities include (1) trg. of personnel in foreign trade & intnl. business management (2) functional research (3) overseas mkt. studies, area surveys & commodity studies & State export potential surveys (4) consultancy and (5) collection & dissemination of information relating to India's foreign trade.

Health Administration & Education, National Institute of, E-16, Greater Kailash I, New Delhi 110048.

Historical Research, Indian Council of, 35, Ferozeshah Rd., New Delhi 110001.

Home Economics, Institute of, NDSE, Part I, New Delhi 110049.

Hotel Management, Catering and Nutrition, Institute of, Pusa Institute, New Delhi 110012.

Indology, Institute of, 24E, N. Subash Mrg., Delhi 110006.

Industrial Relations & Human Resources, Shri Ram Centre for, 5, Pusa Rd., New Delhi 110005.

Industrial Research, Shri Ram Institute for, 19, Univ. Rd., Civil Lines, Delhi 110007. To assist nationa industrial growth through research for fibre & polymer industries, and also offer testing facilities through its Division known as "Shriram Test House" to industry and trade. *Dir.:* Dr. R. T. Thampy.

Islamic Studies, Indian Institute of, Panchkuin Mrg., New Delhi 110001.

International Studies, Indian School of, 35, Ferozeshah Rd., New Delhi 110001.

Jamia Rural Institute, Jamia Millia, New Delhi 110025.

Kendriya Vidyalaya Sangathan, Nehru House, Bahadur Shah Zaffar Mrg., New Delhi 110001.

Labour Studies, Indian Institute of, B-1/41, Safdarjung Enclave, New Delhi 110016.

It provides advanced trg. to officers of Central & State Govts., Public Sector Undertakings & nominees of the foreign Govts. (Asian & African Countries) in practices & techniques of Labour Adm. It also undertakes research in Labour relations matters. *Dir.:* A. N. Roy.

Ladakh Bauddha Vihara, Bela Rd., Delhi 110006.

Management Development Institute (Sponsored by the Industrial Finance Corpn. of India), A-21, Palam Mrg., Vasant Vihar, New Delhi 110057.

Provides trg. in modern management techniques to its clients, particularly new entrepreneurs & technologists entering industry & also to the senior executives of both public & private sector industries (medium & large). It would also specialise in providing trg. in devpt. banking to the staff of the term-lending financial insttns. at the State & all-India levels. *Chmn.:* Dr. B. K. Madan.

Marketing and Management, Institute of, 62F, S. S. Park, New Delhi 110003.

Membership : 800 with Chapters at : Bombay, Madras, Calcutta, Bangalore, Faridabad, Cochin & Chandigarh. National Apex membership body for the mktg. discipline in India. IMM provides services to its members in the fields of Research & Feasibility, Trg., Management Consultancy & Publications. *Regnl. Offices :* Bharat House, 104, Apollo St., Bombay 400023 ; Suite No. 10, Commerce House, 2, G. C. Ave., Calcutta 700013 ; 18, Ramanathan St., T. Nagar, Madras 600017 ; 19/18C, Kaloor Rd., Cochin 682018 (Kerala) ; Major V. S. R. Samy, Flash Enterprises, 72-B, Miller Rd., Bangalore 565002. *Chmn. :* K. N. Sapru ; *Secy.-Genl. :* Dr. Jagjit Singh.

Mass Communication, Indian Institute of, D-13, South Extn., Part II., New Delhi 110049. A centre for advanced study in mass communication with responsibilities for trg., research & devpt. of the mass communication media in the country. Trg. programme caters to Govt. & non-Govt. personnel, besides Asian & African trainees seconded under the Colombo Plan & Spl. Commonwealth Assistance Programme. *Dir.:* M. V. Desai.

Materials-Management of India, Institute of, D-409, Defence Colony, New Delhi 110024.

Medical Research, Indian Council of, Medical Enclave, Ansari Nagar, New Delhi 110016.

The Council has established a Research Cadre & a Supernumerary Research Cadre to attract workers interested in bio-medical research. A scheme for appointment of Emeritus Medical Scientists has been initiated to enable eminent retired scientists to pursue the research work in which they are specialised to train younger workers. The Council maintains National Institute of Nutrition, Hyderabad ; Virus Research Centre, Pune (with its peripheral units) ; T.B. Chemotherapy Centre, Madras ; Cholera Research Centre, Calcutta ; Indian Registry of Pathology, New Delhi ; National Instt. of Occupational Health at Ahmedabad & the Instt. for Research in Reproduction in Bombay. It has established a number of Units for important subjects *e.g.*, a Blood Group Reference Centre, Bombay ; Entero Virus Unit, Bombay ; I.C.M.R. Research Unit, Coonoor & Laboratory Animals Information Services, Bombay. *Dir. Genl.:* Dr. C. Gopalan.

Medical Sciences, All India Institute of, Ansari Nagar, New Delhi 110016.

Medical Sciences, Indian Academy of, C-11/2, Ansari Nagar, New Delhi 110016.

Medicine & Medical Research, Institute of History of, 2/3A, Asaf Ali Rd., New Delhi 110001.

Nehru Memorial Museum and Library, Teen Murti House, New Delhi 110011. A personalia museum depicting the life & work of Jawaharlal Nehru in the context of the struggle for Indian freedom, and a research library specialising in the history of modern India. Besides 55,000 books the library has a rich collection of newspapers, unpublished private papers, photographs, oral history recordings & microfilms. *Dir. :* B. R. Nanda.

Nuclear Medicine and Allied Sciences, Institute of, Probyn Rd., Delhi 110007.

Office Management (India), Institute of, N-34, Jangpura Extn., New Delhi 110014.

(1) The Institute has liaison with Admve. Management Socy. of U.S.A., Systems & Procedures Assn. of U.S.A. & Instt. of Admve. Management of U.K. (2) It disseminates knowledge about modern techniques. (3) It renders assistance in designing forms for internal use. (4) It conducts Associateship examination in Office Management twice a year. (5) A Certificate Course in Office Supervision for graduate women is also conducted in collaboration with the Delhi Univ. *Pres.*, Raghu Nath Rai ; *Hon. Gen.-Secy.*. J. Prasad.

Operational Research Society of India, C/o C.S.I.R., Rafi Marg, New Delhi 110001.

Orthopaedics, Central Institute of, Safdarjung Hospital, New Delhi 110016.

Phytopathological Society, Indian, Indian Agricultural Research Institute, New Delhi 110012.

Plant Physiology, Indian Society of, Botany Dn., Indian Agricultural Research Institute, New Delhi 110012.

Psychic & Spiritual Research, Institute of, 22, Sardar Patel Mrg., New Delhi 110021.

Public Administration, Indian Institute of, Indraprastha Estate, Ring Rd., New Delhi 110001.

Public Co-operation, Central Institute of Research & Training in, C-1/4, Safdarjang Dev. Area, Hauz Khas, New Delhi 110016. Trg. & research in Social Welfare & Public Co-opn.

Research and Training in Employment Service, Central Institute of, Pusa, New Delhi 110012.

Objects : To provide inservice trg. to Employment Services Officers ; to develop trg. material & training aids and also to provide professional trg. to the Emp. Service Officers deputed from all States & Union Territories as well as from other Asian & African countries under various fellowships & intnl. assistance programmes ; to develop & operate a systematic programme of research for identifying and analysing problems of the Emp. Service ; to develop guides, manuals, brochures, etc. for improving the placement & other activities at local emp. exchanges ; to conduct research in emp., unemployment & manpower problems ; to develop and disseminate career literature, compile & publish occupational information and prepare information about the insttnl. & in-plant trg. facilities in India for the use of youth & guidance workers. *Dir. :* V. D. Sharma.

Road Transport, Indian Institute of (Delhi Branch), Room No. 516, Transport Bhavan, Parliament St., New Delhi 110001.

Russian Studies, Institute of, J. L. Nehru Univ. Campus, New Mehrauli Rd., New Delhi 110022.

Science & Culture, Institute of Advancement of, J-22, Haus Khas Enclave, New Delhi 110016.

Science Education, National Council for, Sri Aurobindo Ashram, Sri Aurobindo Mrg., New Delhi 110016.

Scientific Documentation Centre, Indian National, Hillside Rd., New Delhi 110012.

Scientific & Technical Literature, Indian Council for Promotion of, 89, Mohan Singh Plot, Kharak Singh Mrg., New Delhi 110001.

Social Guidance, Institute for, 2F, Lajpat Nagar, New Delhi 110024.

Social Science Research, Indian Council of, IIPA Hostel, Ring Rd., Indraprastha Estate, New Delhi 110001. An autonomous body set up by the Govt. of India to promote social science research, to expand its quantum, to improve its quality & to facilitate its utilisation in policy formulation and national devpt. *Chmn. :* Dr. M. S. Gore ; *Mem.-Secy. :* J. P. Naik.

Statistical Institute, Indian, J-19, Haus Khas, New Delhi 110016.

Teacher Educators, Indian Association of, 33, Chhatra Mrg., Delhi 110007.

Technical Education, Indian Society for, IIT Campus, Hauz Khas, New Delhi 110016.

Technology, Indian Institute of, Hauz Khas, New Delhi 110016.

Tibetan Schools Society, Curzon Rd. Barracks, New Delhi 110001.

Town Planners, Institute of, India, Indraprastha Estate, M. Gandhi Mrg., New Delhi 110001.

United States Educational Foundation in India, 12, Hailey Rd., New Delhi 110001.

Vallabhbhai Patel Chest Institute, Univ. of Delhi, Patel Mrg., Delhi 110007.

GOA

COMMERCIAL

Mineral Ore Exporters Association, Goa, Vagle Bldg., Rua Conde de Tones Novas, Panaji 403001.

Mining Association, Goa, Panaji 403001.

GUJARAT

COMMERCIAL

Art Silk Cloth Manufacturers Association, Surat, Resham Bhavan, Lal Darwaja, Surat 395003.

Art Silk Manufacturers-Exporters Co-op. Society Ltd., Surat (SASME), Taj Manzil, Tower Rd., Surat 395001. (*Branch Office :* Chikhal House, 453, Kalbadevi Rd., Bombay 400002.)

Automobile Association, Western India, The Cellar, Khanpur, Ahmedabad 380001.

Automobile Dealers' Assocn., Ahmedabad, Cama Motors P. Ltd., Lal Darwaja, Ahmedabad 380001.

Bakers' Assocn., Surat, C/o Saher Bakery, Nanpura, Near Makai Pool, Surat 395001.

Bakery Association, 983, Mirzapur Rd., Near Lalluraiji's Wanda, Ahmedabad 380001.

Bobbin Mfg. Association, Gujarat State, C/o Ashok Textile Inds., Rd. No. 3, Saraspur, Ahmedabad 380018.

Book Mfrs'. Assocn., Jawahar Stores, 57, Nagar Sheth Mkt., Ratanpole, Ahmedabad 380001.

Brass Foundry Assocn., Jamnagar, Pushpa Kunj, Plot No. 49, Jamnagar 361001.

Builders' Association, Ahmedabad, Gujarat Instt. of Civil Engrs. & Architects, Law College Rd., Ahmedabad 380006.

Building Materials Suppliers Assocn., Ahmedabad, Kadia Naka, Dariapur, Ahmedabad 380001.

Button Manufacturers Association, All India, Juri Jail Compound, Jamnagar 361001.

Cement Stockists' Assocn., Jamnagar, Grain Mkt., Jamnagar 361001.

Charcoal Merchants Assocn., Ahmedabad Wholesale, Opp. Asarwa Rly. Stn., Nr. Dadahari's Vav, Ahmedabad 380016.

Chemical Association, Gujarat, Railwaypura X Lane, Nr. Bank of India, Ahmedabad 380002.

Chemical Manufacturers Association, Saurashtra, Drug Laboratory, Darbargadh, Bhavnagar 364001.

Chemical Merchants' and Manufacturers' Association, Gujarat, 1466/4, Reid Rd., Ahmedabad 380002.

Chemical Pottery and Silk Manufacturers Association, Ahmedabad, C/o Anil Starch Products Ltd., Anil Rd., Ahmedabad 380002.

Chemists Assocn., Ahmedabad, C/o Swaminarayan Medical Stores, Pankore Naka, Three Gates, Ahmedabad 380001.

Chemists & Druggists Assocn., Jamnagar, C/o Parag Medical Stores, Stn. Rd., Jamnagar 361001.

Chemists & Druggists Assocn., Surat, Limda Chowk, Surat 395001.

Clearing & Carting Contractors' Assocn., Ahmedabad, C/o Ratilal Vadilal & Sons, Revdi Bazar, Ahmedabad 380002.

Cloth Market Association, Ahmedabad Maskati, Maskati Cloth Mkt., Ahmedabad 380002.

Coal & Coke Merchants' Assocn., Ahmedabad, Girdhar Master Compound, R. C. Technical Rd., Saraspur, Ahmedabad 380028.

Coal & Coke Merchants' Assocn., Morvi, Stn. Rd., Morvi 363641.

Coal Merchants' Assocn., Ahmedabad, Mahalaxmi Mandir, Near Victoria Garden, Ahmedabad 380001.

Cold Storage Assocn., Gujarat, C/o Jamnagar Cold Storage, Gandhinagar Rd., Jamnagar 361001.

Colour Merchants' Association, Ahmedabad, C/o L. K. Trivedi & Co., 4020/15, Astodia, Ahmedabad 380001.

Confectionery Mfg. Assocn., Gujarat, 52/1, Kabutarkhana, Choka Bazar, Kalupur, Ahmedabad 380001.

Confectionery Mfg. Owners' Assocn., Gujarat, Near Narsinji's Mandir, Gomtipur, Ahmedabad 380021.

Contractors' Assocn., Gujarat, Law Coll. Rd., Ellis Bridge, Ahmedabad 380006.

Corrugated Box Mfrs. Association, Gujarat, Indira Nivas, Near Brahman Sabha Hall, Vadodara.

Cotton Association Limited, West India, Cotton Hall, Manek Chowk, Ahmedabad 380001.

Cotton Dealers Assocn., Central Gujarat, Nava Dera Rd., Broach 392001.

Cotton Dealers' Assocn., Southern Gujarat, Resham Bhavan, Lal Darwaja, Surat 395003.

Cotton Merchants' Association, Ahmedabad, Dahyabhai Chambers, Manek Chowk, Ahmedabad 380001.

Cotton Merchants' Assocn., Morvi, Darbargadh Rd., Morvi 363641.

Cotton Waste Merchants' Association, Ahmedabad, Cotton Waste Bldg., Relief Rd., Ahmedabad 380001.

Customs House Agents, Assocn., Jamnagar, Grain Mkt., Jamnagar 361001.

Cutlery Merchants' Assocn., Ahmedabad, C/o P. Liladhar & Co., Khadia Char Rasta, Ahmedabad 380001.

Cutlery Merchants' Assocn., Jamnagar, C/o. P. H. Sheth & Co., Near Jain Derasar, Jamnagar 361001.

Cycle Dealers Association, Gujarat State, Inside Panch Kuva, Ahmedabad 380001.

Electrical Merchants & Contractors' Mfg. Assocn., Ahmedabad, Prakash Bhavan, Opp. Model Theatre, Ahmedabad 380001.

Engineering Assocn., Morvi, Bazar Lane, Morvi 363641.

Engineering Assocn., South Gujarat, C/o Aero Spring Industries, 73, Sadadiwala Mkt., Barhanpuri Bhagal, Surat 395001.

Engineering Manufacturers Association, Ahmedabad, Surendra House, Gheekanta Rd., Ahmedabad 380001.

Engineering Works Assocn., Jamnagar, C-2, New Super Mkt., Jamnagar 361001.

Exercise Books Mfg. Assocn., Gujarat State, 57 Nagarsheth Mkt., Ratanpole, Ahmedabad 380001.

Factory Owners' Assocn., Jamnagar, Santosh Niwas, Near Jain Derasar, Jamnagar 361001.

Fertiliser Dealers' Assocn., Jamnagar Dist., Jamnagar 361001.

Flour Mills Assocn., Jamnagar, C/o Dhruv Electric Stores, Ranjit Rd., Jamnagar 361001.

Ghee Merchants Assocn., Ahmedabad Juna Madhavpura, Juna Madhavpura, Ahmedabad 380001.

Ginning and Pressing Factories Association, Saurashtra, C/o Dhrangadhra House, Surendranagar 363001.

Glass Merchants Assocn., Ahmedabad, C/o Ramanlal C. Kachwalla, Under Fernandez Bridge, Gandhi Rd., Ahmedabad 380001.

Grain & Kirana Merchants' Assocn., Retail, Bazar Lane, Morvi 363641.

Grain Merchants Association, Ahmedabad, Chokha Bazar, Ahmedabad 380002.

Hair Oil & Perfumery Traders Association, Gujarat, C/o J. B. Shah & Co., Pankaj Society, Ahmedabad 380007.

Hosiery Factory Owners' Assocn., Ahmedabad & Gujarat, C/o Mahboob Knitting Works, 33, Joting Shah Pir's Pole, Kalupur, Ahmedabad 380001.

Hosiery Merchants' Assocn., Ahmedabad Wholesale C/o Amritlal Nagindas & Co., Shetia Bldg., Relief Rd., Ahmedabad 380001.

Hotel & Lodge Assocn., Jamnagar, C/o Khadi Bhandar, Ranjit Rd., Jamnagar 361001.

Hotel Owners' Association, Ahmedabad, Mirzapur Rd., Ahmedabad 380001.

Industrial Co-operative Association Ltd., Gujarat State, Pattarkuwa, Tilak Rd., Ahmedabad 380001.

Industrial Co-op. Assocn., Ltd., Surat Dist., 98, Sadadiwala Mkt., Barhanpuri Bhagal, Surat 395001.

Industrial Estate Factory Owners' Assocn., Ahmedabad, N-3, Bapunagar, Ahmedabad 380021.

Industrial Information Centre, Chamber Hall, Jamnagar 361001.

Industries Assocn., Kandla Free Trade Zone, Free Trade Zone, Gandhidham 370201 (Kutch Dist.).

Industries Assocn., Naroda, C/o Atlas Radio & Elec. Ind. P. Ltd., 57, G.I.D.C. Township, Naroda, Ahmedabad 380002.

Industries Assocn., Vatva, 91-A-10, G.I.D.C. Estate, Vatva (Ahmedabad).

Iron & Hardware Merchants' Assocn., Jamnagar, Kashi Vishwanath Rd., Jamnagar 361001.

Iron and Paint Merchants' Federation, Ahmedabad, Lokhand Mahajan Bldg., Ahmedabad 380001.

Iron-Hardware & Machinery Merchants' Assocn., Modasa, Near Old Motor Stand, Modasa (Sabarkantha Dist.).

Iron & Steel Merchants' Association, Bhavnagar, Lokhand Bazar, Bhavnagar 364001.

Isabgol Manufacturers' & Exporters' Association, Bind Sarowar Rd., Sidhpur.

Jaggery & Sugar Merchants Association, Ahmedabad, Chokha Bazar, Ahmedabad 380002.

Jari Goods Producers' Co-operative Society Limited, Surat, Taj Manzil, Opp. Tower, Surat 395001.

Jari Manufacturers' Association Ltd., Surat, Salabatpura, Momanwad, Surat 395002.

Jari Manufacturers & Merchants Association, Surat, Safe Deposit Chambers, Bhagatalao, Surat 395001.

Kapad Vepari Mahamandal, Morvi, Bazar Lane, Morvi 363641.

Machinery Merchants' Association, C/o Surendrakumar & Bros., 691/2 Reid Rd., Ahmedabad 380002.

Marketing Society, Gujarat State Co-operative, Tilak Rd., Ahmedabad 380001.

Metal Exchange, Ahmedabad, C/o Kaniyalal Navnitlal Parikh, Kansara Dehla, Railwaypura, Ahmedabad 380002.

Metal Merchants' Association, Ahmedabad, Metal House, Jethabhai Pole, Ahmedabad 388001.

Milk Producers Union Ltd., Kaira Dt. Co-operative, Anand 388001. Also known as AMUL after its popular name of dairy products, it is a dairy co-operative which is a federation of 825 village co-ops. having approximately 235,000 farmer-members.

Milk Producers' Union Limited, Mehsana Dt. Co-operative, Mehsana 384001. It collects 350,000 kgs. of milk every day and produces every year 3,000 tons of baby food, 4,000 tons of spray dried milk powder, 2,500 tons of table butter and 1,500 tonnes of ghee; also 30,000 tons of balanced cattle feed.

Milk Producers' Union Ltd., Rajkot Dist. Gopalak Co-operative, Near New Power House, Bhavnagar Rd., Rajkot 360003.

Mill and Gin Stores Merchants' Association, Ahmedabad, Reid Rd., Railwaypura, Ahmedabad 380002.

Mill Owners Association, Ahmedabad, Ranchhodlal Marg, Navrangpura, Ahmedabad 380009.

Millowners' Association, Saurashtra, Dhrangadhra House, Surendranagar 363001.

Mills and Industries, Federation of Gujarat, Rameshchandra Dutt Rd., Vadodara 390005.

Mineral Industry Association, Gujarat, 38/4, Spectrum Commercial Centre No. 1, Salapose Rd., Ahmedabad 380001.

Mosaic Tiles Mfg. Assocn., Morvi, C/o Navyug Tiles Works, Lati Rd. No. 3, Morvi 363641.

Motor Merchants' Assocn., Jamnagar, C/o Jain Auto Centre, Grain Mkt., Jamnagar 361001.

Motor Merchants Association, Surat, C/o Surat Automobiles, Station Rd., Surat 395001.

Motor Transport Assocn., C/o Munshi & Co., Delhi Gate, Near Jakat Naka, Surat 395003.

Motor Transport Assocn., Ahmedabad, Tagia Mahajan Wadi, Panchkuva, Ahmedabad 380001.

Oil Merchants' Assocn., Chokha Bazar, Kalupur, Ahmedabad 380002.

Oil Mills Association, Saurashtra, Manmohan Mkt., Jamnagar 361001.

Optical Assocn. Federation, Gujarat, 2708/B, Relief Rd., Near Oriental Bldgs., Ahmedabad 380001.

Optical Manufacturers Association, Gujarat, Mangal Bazar, Vadodara 390001.

Paints & Allied Industries Assocn., Gujarat, C/o Vellian Paints P. Ltd., Madhubhai Mill Compound, Ahmedabad 380018.

Paper Merchants' Assocn., Ahmedabad, Kalyan Paper Mart, Nava Darwaja Rd., Khadia, Ahmedabad 380001.

Pharmaceutical Association, Indian, L.M. College of Pharmacy, Ahmedabad 380009.

Pharmaceutical Mfg. Assocn., 11/6, Nima Bldg., Gopal Chowk, Bhairavnath Rd., Maninagar, Ahmedabad 380009.

Picker & Textile Leather Mfg. Assocn., All India, P. Box 156, Ahmedabad 380001.

Piecegoods Merchants' Assocn., Ashapura Rd., Jamnagar 361001.

Pipe Traders' Association, Gujarat, Lokhand Mahajan Bldg., Nava Darwaja Rd., Ahmedabad 380001.

Plastic Manufacturers Association, Gujarat State, C/o Hemant Bros., Super Mkt. Premises, Ashram Rd., Ahmedabad 380009.

Powerlooms Assocn., Gujarat, Padmavati Raje Cotton Mills Ltd., Nr. Hathikhai Garden, Gomtipur, Ahmedabad 380021.

Precious Stone Exporters' Association, Vasda Vad, Jawahar Rd., Cambay (Kaira Dist.).

Printing Press Assocn., Ahmedabad, New City Printing Press, Dhalgarwad, Ahmedabad 380001.

Pustak Prakashak & Vikreta Mandal, Ahmedabad, Bala Hanuman, Gandhi Rd., Ahmedabad 380001.

Radio Dealers' Assocn., Jamnagar, C/o Hind Electric Stores, Ranjit Rd., Jamnagar 361001.

Radio Merchants' Association, Ahmedabad, C/o National Radio Co., Manek Chowk, Ahmedabad 380001.

Readymade Cloth Dealers Assocn., Ahmedabad, C/o Dilip Kumar & Co., Rani's Hajira, Manekchowk, Ahmedabad 380001.

Re-Rolling Mills Assocn., Gujarat, Gupta Chambers, Outside Sarangpur Darwaja, Old Lati Bazar, Ahmedabad 380002.

Sahakari Sangh Limited, Surat Vankar, Kinkhabwala Wadi, Begumpura, Surat 395001.

Sahakari Sangh Limited, Udhna Udyognagar, Central Rd., Udhna.

Sahakari Udyognagar Sangh Ltd., Jamnagar, New Super Mkt., Jamnagar 361001.

Salt Dealers' Assocn., Gujarat, C/o Vijay Trading Co., Ranjit Rd., Jamnagar 361001.

Salt Exporters' Assocn., Nepal, 'Bharat Deep', Dhrangadhra.

Salt Mfrs. Assocn., Dhrangadhra, Post Office Rd., Dhrangadhra.

Salt Mfrs. Assocn., Kutch Saurashtra, D-10/11, Manmohan Mkt., Jamnagar 361001.

Salt Traders Assocn., Dhrangadhra, Chemical Rd., Dhrangadhra.

Sanitaryware Merchants' Association, Ahmedabad, Prajapati Bldg., Khadia Char Rasta, Ahmedabad 380001.

Scientific, Surgical & Chemical Assocn., Gujarat, Noor Estate, Biscuit Gali, Pankore Naka, Ahmedabad 380001.

Seeds & Grain Merchants' Assocn., Grain Mkt., Jamnagar 361001.

Seeds Merchants Association Ltd., Ahmedabad, Rawat Wadi, Gandhi Rd., Ahmedabad 380001.

Share & Stock Brokers Association, Ahmedabad, Manekchowk, Ahmedabad 380001.

Shipping Agents Assocn., Jamnagar, C/o Chowgule Bros., Pandit Nehru Mrg., Jamnagar 361001.

Shroff Association, Ahmedabad, 2277/3, Manek Chowk, Opp. Share Bazar, Ahmedabad 380001.

Silicate Mfrs.' Assocn., Gujarat, 13, Pratima Society, Opp. Pharmacy Coll., Navrangpura, Ahmedabad 380002.

Small Industries Association, Bhavnagar, Bunderr Rd., Bhavnagar 364001.

Small Industries Association, Kalol, Navjivan Rd., Kalol 382721.

Small Industries Federation, Gujarat State, Near Gujarat Samachar, Khanpur, Ahmedabad 380001.

Small Scale & Cottage Industries, Federation of, Dadasaheb Haveli, Mandvi, Vadodara 390001.

Snuff Merchants' Assocn., Ahmedabad, C/o J. G. Popatia & Sons, Doshiwada's Pole Naka, Ahmedabad 380001.

Soap Makers' Association, Gujarat, C/o Shree Krishna Industries, Pratapnagar Rd., Vadodara 390004.

Spun Pipe Mfrs.' Assocn., Gujarat, C/o Vikas Spun Pipe Udyog, Munshi's Khancho, Raipur, Ahmedabad 380001.

Steamship Agents Assocn., Kandla, Gandhidham 370201 (Kutch Dist.).

Synthetic Stones Jewellers' Assocn., Cambay, C/o Mohanbhai Sunderlal Sadiwala, Pith Rd., Khambhat (Kaira Dist.).

Textile Association (India), Toll Naka, Gandhi Bridge, Ahmedabad 380009.

Textile Processors' Assocn., Gujarat, Rupam Cinema, Relief Rd., Ahmedabad 380001.

Textile Rings Manufacturers Association, Gujarat, C/o Oriental Tin Factory, Kalidas Mill Compound, Gomtipur Rd., Ahmedabad 380021.

Tiles Manufacturers Association, Ahmedabad, C/o Shree Tiles & Marble Co., Khadia Char Rasta, Ahmedabad 380001.

Tiles Mfrs. Assocn., Shree Morvi Roofing, C/o Bhadiad Potteries, Morvi 363641.

Timber Merchants' Association, Ahmedabad, Geetamandir Rd., Khadia Char Rasta, Ahmedabad 380001.

Timber Merchants' Assocn., Jamnagar, Kashi Vishwanath Rd., Jamnagar 361001.

Tobacco Merchants' Assocn., Kaira Dist., Tundel Rd., Nadiad 387001.

Trimming & Lace Factories Assocn., Ahmedabad, 164, Swaminarayan Godown, Outside Dariapur Gate, Ahmedabad 380001.

Tyre Dealers' Assocn., Ahmedabad, Lucky Chambers, Mirzapur Rd., Ahmedabad 380001.

Vepari Mahajan Assocn., Nadiad, Stn. Rd., Nadiad 387001.

Vepari Mahamandal, Gandhinagar, C/o Laxmi Bakery, Sector 21, Gandhinagar (Ahmedabad Dist.).

Weavers' Co-op. Producers' Society Ltd., Surat, Salabatpura, Dariawad, Surat 395002.

Weaving Association, Surat, Limda Chowk, Lokhandwala Bldg., Mahatma Gandhi Rd., Surat 395001.

Wool Merchants Association, Gujarat, Post Box No. 122, Jamnagar 361001.

Yarn Merchants' Assocn., Surat, 10/265, Gandhi Chowk, Taswala St., Surat 395001.

CULTURAL, SOCIAL AND PROFESSIONAL

Anaesthetists, Indian Society of, Anaesthesiology Deptt., MPS Hospital, Asarwa, Ahmedabad 380016.

Aquatic Association, Gujarat State, 3552, Shahpur, Ahmedabad 380001.

Bharat Scouts & Guides, Gujarat State, Lal Darwaja, Ahmedabad 380001.

Chartered Accountants' Assocn., Ayakar Bhavan, Tolnaka, Ashram Rd., Ahmedabad 380009.

Citizen's Council, Baroda, Health Musuem, Sayaji Baug, Vadodara 390005.

Cricket Association, Gujarat, Bhadra, Ahmedabad 380001.

Darpana, 'Chidambaram,' Usmanpura, Ahmedabad 380013.

Deposit Brokers' Assocn., Gujarat, Tankshal, Kalupur, Ahmedabad 380001.

Engineers (India), Institution of, Law College Rd., Ahmedabad 380005.

Family Planning Association, Gujarat State, Krishnabag, Ahmedabad 380008.

Fisheries Central Co-op. Association Ltd., Gujarat, Ramol Rd., Ahmedabad 380001.

Income Tax Practitioners' Assocn., Near Annie Besant Hall, Nanabhai Rd., Surat 395001.

Jeevan Bharati, Greenlands, Nanpura, Surat 395001.

Junior Chamber, Surat, Vasundhara, Nawapura, Parsi Sheri, Surat 395001.

Management Association, Ahmedabad, Bank of India Bldg., Bhadra, Ahmedabad 380001.

Medical Council, Gujarat, A-2, New Civil Hospital, Ahmedabad 380016.

Moral & Social Hygiene, Association for, J. P. Bldg., Bhadra, Ahmedabad 380001.

Nursing Council, Gujarat, New Civil Hospital, Ahmedabad 380016.

Pharmacy Council, Gujarat State, 15, Shrimali Socy., Ahmedabad 380009.

Productivity Council, Ahmedabad, 74/11, Jagabhai Park, Ahmedabad 360002.

Productivity Council, Kutch-Saurashtra, Raghuvir Bhavan, Gondal Rd., Rajkot 360002.

Productivity Council, Surat, Vasudhara, 3rd Flr., Room No. 6, Parsi Sheri, Surat 395001.

Productivity Council, Vadodara, Productivity House, Productivity Rd., Vadodara 390003.

Railway Transport Relief Assocn., Kankaria Goods Depot, Ahmedabad 380022.

Rifle Association of India, National, Khanpur, Ahmedabad 380001.

Sadhu Samaj, Bharat, Jagdish Mandir, Ahmedabad 380022.

Sales Tax Practitioners' Assocn., New Super Mkt., Jamnagar 361001.

Sharada Peeth, Dwarka.
Pontifical seat established for spiritual and cultural guidance & uplift in W. India, by the first Jagadguru Shankaracharya.

Theatre Owners' & Exhibitors' Assocn., Gujarat, Rupam Cinema, Tilak Rd., Ahmedabad 380001.

Truck Owners' Association, Surat, Municipal Bldg., Station Rd., Surat 395003.

EDUCATIONAL AND RESEARCH

Agricultural Institute, Government, Anand 388001.

Ayurvedic University, Gujarat, P.O. Box No. 511, Jamnagar 361001.

Cancer Research Institute, Gujarat, NCTT Compound, Ahmedabad 380016.

Civil Engineers and Architects, Gujarat Institute of, Law College Rd., Ahmedabad 380006.

Design, National Institute of, Paldi, Ahmedabad 380007. An autonomous national insttn. for Design Edn. (Undergraduate & Postgraduate), Research & Services in fields of Product Design, Furniture Design, Ceramic Design, Textile Design, Graphic Design, Photography, Film & Sound, Printing, Typography & allied fields.

Education Society, Ahmedabad, Lal Bhavan, Bhadra, Ahmedabad 380001.

Education Society, Shreyas, Laxminarayan Trust Bldg., Godhra 389001.

Engineering Research Institute, Race Course Rd., Vadodara 390005.

Environmental Planning & Technology, Institute of, Navrangpura, Ahmedabad 380009.

Export, Indian Institute of, Sayajiganj, Vadodara 390005.

Homoeopathic Institute, Gujarat Rajya, 702/9, Seth Mangaldas Rd., Ahmedabad 380006.

Homoeopathic System of Medicine, Gujarat Council of, Civil Hospital Bldg., Ahmedabad 380016.

Learning and Research, Sheth Bholabhai Jeshinghbhai Institute of, R. C. Marg, Ahmedabad 380009.

Management, Indian Institute of, Vastrapur, Ahmedabad 380015. *Chmn.:* Keshub Mahindra; *Dir.,:* Dr. S. Paul; *Adm. Officer:* R. C. Chib.

Management, Institute of Co-operative, 9, Brahmin Mitra Mandal Society, Ellis Bridge, Ahmedabad 380006. To carry out management trg. & research to help Gujarat's Co-optve. Executives to help other Co-optve. Trg. Insttns. to develop their own programmes; to provide Co-optves. with managerial services on request and to carry out these objectives in an economical & financially viable manner.

Management Studies, All India Institute of, 14, Lal Baug Society, Vadodara 390004.

Man-Made Textiles Testing & Research Association, SASCMA, Resham Bhavan, 5th Flr., Lal Darwaja, Surat. 395003.

Medical Society, Ahmedabad, Opp. H.K. Arts Coll., Ashram Rd., Ahmedabad 380009.

Occupational Health, National Institute of, Opp. New Mental Hospital, Ahmedabad 380016. Conducts elaborate research on industrial health & safety hazards. *Dir.:* Dr. S. K. Chatterjee.

Oriental Institute, Smt. Hansa Mehta Library Bldg., Tilak Rd., Vadodara 390001.

Physical Research Laboratory, Navrangpura, Ahmedabad 380009.

Political Science, Harold Laski Institute of, Mavlankar Haveli, Bhadra, Ahmedabad 380001. The Instt. encourages & facilitates the scientific study of political and allied questions & problems. *Founder-Dir.:* Prof. P. G. Mavlankar.

Soil Conservation Research, Adm. & Trg. Centre, Opp. Rly. Station, Valsad.

Space Applications Centre, Ahmedabad 380015.

Textile and Allied Industries Research Organisation (TAIRO), Kala Bhavan Premises, Vadodara 390001.

Textile Industry's Research Association, Ahmedabad, (ATIRA) Polytechnic P.O., Ahmedabad 380015. Inauguration: 1954. Established a Regional Centre at Indore: 1956. 1. Research (*a*) to promote better understanding of materials, machines, processes and (*b*) to increase productivity, improve quality & reduce cost; 2. Devpt. of new products & processes; 3. Trg. of supervisors from industry; 4. Communication with industry. Guidance to research students for Postgraduate degrees of Gujarat Univ., M. S. Univ. of Vadodara and Bombay Univ.

Textile Labour Association, P.B. No. 110, Bhadra, Ahmedabad 380001.

Vocational Guidance, Institute of, Narayan Park, Navrangpura, Ahmedabad 380009.

Workers' Education Centre, Krishna Sadan, Behind Dinesh Mills Ltd., Vadodara 390005.

HARYANA

COMMERCIAL

Industries Association, Faridabad, New Industrial Township, Faridabad 121001.

Manufacturers' Association, Sonepat 131001.

Scientific Instruments Manufacturers' and Dealers' Association, Hargolal Rd., Ambala Cantt. 133001.

Textile Manufacturers' Association, Haryana, 13-T, Industrial Area, Panipat 132103.

CULTURAL, SOCIAL AND PROFESSIONAL

Productivity Council, Faridabad, 32-C, Nehru Ground, N.I.T., Faridabad 121001.

Productivity Council, Sonepat, Atlas Cycle Industries Ltd., Sonepat 131001.

HIMACHAL PRADESH

EDUCATIONAL AND RESEARCH

Advanced Study, Indian Institute of, Rashtrapati Niwas, Simla 171005.

JAMMU & KASHMIR

COMMERCIAL

Beopar Mandal, Sri Runbir Gunj, Srinagar 190001.

Govt. Trade Offices

Trade Agent, Manekji Wadia Bldg., 129, M. Gandhi Rd., Bombay 400023. *Trade Agent,* Kashmir House, Court Rd., Amritsar 143001. *Trade Agent,* Dalhousie Rd., Pathankot. *Trade Commission,* 5, Prithviraj Rd., New Delhi, 110011.

EDUCATIONAL AND RESEARCH

Skiing & Mountaineering, Indian Institute of, Gulmarg.

KARNATAKA

COMMERCIAL

Agarbathi Manufacturers Co-op. Society Ltd., Mysore State, Chamber of Commerce Bldg., Kempegowda Rd., Bangalore 560009.

Arecanut Mandy Merchants Assocn., Shimoga, Dr. S. P. M. Rd., Shimoga 577201.

Automobile Association of Southern India, 18, St. Mark's Rd., Bangalore 560001.

Automobile Dealers' Association, Mysore State, Sundaram Motors Bldg., 2-2A, Kasturba Rd., Bangalore 560001.

Automobile Machinery & Tractor Dealers Association, Raichur, 22, South Kachari Rd., Raichur 584101.

Automobile Parts and Allied Merchants' Association, Karnataka, 17, Ramakrishna Bldg., Narasimharaja Rd., Bangalore 560002.

Cashew Manufacturers' Association, Mangalore, Port Rd., Mangalore 575001.

Chemists & Druggists Association, Karnataka, Mahaveer Drug House, 114, Baneswara Temple St., 5th Cross, Arcot Srinivasachar St., Bangalore 560053.

Coconut Merchants' Association, 33, Sethu Rao St., Bangalore 560002.

Coffee & Produce Merchants Assocn., Mangalore, 165, Nireshwallya Rd., Bunder, Mangalore 575001.

Commercial Association, Bangalore, 45, Commercial St., Bangalore 560001.

Cotton Handloom Weavers Co-op. Socy. Ltd., Karnataka State, 18, Model House St., Bangalore 560004.

Electric Lamp and Component Manufacturers' Association of India, C/o Metal Lamp Caps (I) P. Ltd., 2, Murphy Rd., Ulsoor, Bangalore 560008.

Electrical Contractors' Association of Karnataka, Licensed, 33, Avenue Rd., Bangalore 560002.

Electrical Merchants' Association, Shankara Bldgs., Ekambara Sahuji Lane, Chickpet, Bangalore 560053.

Employers' Association, Mysore State, 138, Surveyor's St., Basavangudi, Bangalore 560004.

Fertiliser Co-operative Ltd., Indian Farmers, 37, 5th Block, Jayanagar, Bangalore 560011.

Fish Marketing Federation Ltd., S. Kanara, Mulihithla Bolar, Mangalore 575001.

Flat Tape Manufacturers' Association, All India, 17, Platform Rd., Bangalore 560023.

Foodgrains Merchants' Association, Fair Price Retail, 115, Balepet, Bangalore 560053.

Fruit Commission Agents Assocn., Bangalore, Jai Shri Market, Sethu Rao Road Cross, Bangalore 560053.

Garments Manufacturers Association, Karnataka State, C/o Lalitha Dress Mfg. Co., 64, S. J. Park Rd., Bangalore 560002.

Gold Thread Merchants' Association, Bangalore, 39, Jumma Masjid Rd., Bangalore 560002.

Grain Mandy Merchants' Association, B. H. Rd., Shimoga 577201.

Grain Merchants' Association, Bangalore, Pampamahakavi Rd., Bangalore 560018.

Grains & Kirana Importing Merchants Association, Patel Rd., Raichur 584101.

Grains, Seeds & Cotton Merchants' Association, Yadgiri.

Gunny Merchants' Assocn., Bangalore, 88 First Flr., 3rd Main Rd., New Tharagupet, Bangalore 560002.

Handloom Cloth Merchants' Association, 688, Benna Govindappa Lane, Chickpet, Bangalore 560002.

Hides & Skins Merchants' & Tanners Association, Mysore State, 120, Commercial St., Bangalore 560001.

Hosiery Manufacturers' Association, Belgaum Dist., 2234, Kacheri Gulli, Shahapur, Belgaum 590003.

Hotel Proprietors' Association, S. Kanara Dist., Car St., Mangalore 575001.

Hotels' Association, Bangalore, Shivji Bldg., 264, Mysore Rd., Bangalore 560018.

Industrial Trade Centre, Visveswaraya, Kasturba Rd., Bangalore 560001.

Objectives: To display the various industrial products manufactured in the State and to act as a catalyst in mktg. the same; to collect various statistical information about the industries located in the State and to disseminate the same to the entrepreneurs; to take up mktg. survey feasibility reports on various projects, etc. and to maintain close liaison with research orgns. & insttns. in the country.

Industrial Co-op. Association Ltd., Belgaum Dist., Shahpur, Belgaum 590002.

Industries Association, Dandeli, Dandeli.

Industries Association, Greater Bangalore, Whitefield Rd., Mahadevapura, Bangalore 560048.

Iron, Hardware & Paint Merchants Association, Bangalore, 13, M.R. R. Lane, Bangalore 560002.

Iron & Steel Industrial Co-op. Society Ltd., 6/7, Industrial Town, Rajajinagar, Bangalore 560010.

Jewellers' Association, 213, Nagarthpet, Bangalore 560002.

Kirana Merchants' Assocn., (Regd.), Bangalore, Gayathri Flour Mills Bldgs., Old Tharagupet, Bangalore 560002.

Manufacturers' Organisation, All India, Visvesvaraya Health Museum Bldg., Kasturba Rd., Bangalore 560001.

Merchants Association, Arsikere 573103.

Merchants' Assocn., Hassan Dist., Hassan 573201.

Merchants Assocn., Mandya, Bazar St., Mandya 571401.

Oil Industry Association, All India Non-Edible, 33/27, Ranga Rao Rd., Bangalore 560004.

Oil Seeds Processing Society Ltd., Farmers Co-operative, Binkadakatti. (Dharwar Dt.).

Oodabathi Manufacturers' Association, Mysore, Karnataka Chamber Bldg., Kempegowda Rd., Bangalore 560009.

Petroleum Dealers' Association, Bangalore, 18, St. Marks Rd., Bangalore 560001.

Piecegoods Merchants' Association, Bangalore Wholesale, Rukmini Bldg., Chickpet, Bangalore 560002.

Piecegoods Merchants' Association, Mysore, 3, Soji St., Mysore 570001.

Potato & Onion Merchants Association, Bangalore, No. 9, 2nd Main Rd., New Tharagupet, Bangalore 560002.

Powerloom Cotton Cloth Mfrs. Co-op. Socy. Ltd., Devatha Mkt., Bangalore 560053.

Powerloom Silk Mfrs. Co-op. Society Ltd., Bangalore Small Scale, 10th Cross, Cubbonpet, Bangalore 560002.

Publishers & Booksellers' Assocn., Karnataka State, C/o Bhushan & Co., Basavangudi, Bangalore 560004.

Radio Merchants' Association, Karnataka State, 2-F, Mahatma Gandhi Rd., Bangalore 560001.

Retail Merchants Assocn., Bangalore, Narasimharaja Colony, Bangalore 560019.

Rice Dealers Assocn., Mysore City, C/o Raja Rice Mills, Chickaveeramma Rd., Banimantap Extn , Mysore 570007.

Road Transport Association, Karnataka State, B. G. S. Rajas Mansions, II Main Rd., Kalasipalayam New Extn., Bangalore 560002.

Silk Cloth Merchants' Association (Wholesale), Mysore, Shivakrupa Bldg., Chowdeswari Temple St., Bangalore 560002.

Silk Handloom Weavers' Association, Mysore, 13, J. Masjid Rd., Bangalore 560002.

Silk Handloom Weavers, Central Co-op. Socy. Ltd., Karnataka State, 92, Mohameddan Block, Basavangudi, Bangalore 560004.

Silk Manufacturers (Powerlooms) Association, Mysore, 39, J. Masjid Rd., Bangalore 560002.

Silk Marketing Co-operative Society Ltd., Mysore State, 103, Avenue Rd., Bangalore 560002.

Silk Merchants' Association, Mysore Raw, Resham Mahal, Kempegowda Rd., Bangalore 560009.

Silk Throwing Factories Association, Mysore, 97, Sultanpet, Bangalore 560002.

Small Scale Industries Assocn., Dist., Prabha Picture House, Hanumantharao Rd., Mysore 570001.

Small Scale Industries Association, Karnataka, 11-A, Jayachamarajendra Rd., Bangalore 560002.

Small Scale Sector, Association of, 360, IInd Flr., Avenue Rd., Bangalore 560002.

Stationery, Cutlery and General Merchants' Assocn., 328, Avenue Rd., Bangalore 560002.

Stock Exchange Ltd., Bangalore, Kempegowda Rd., Bangalore 560009.

Sugar Mills Association, S. Indian, Mysugar Bldgs., Sri Jayachamaraja Wadiyar Rd., Bangalore 560002.

Textile Association (India) (Regd.), Karnataka Branch, C/o S. K. S. J. Technological Instt., Bangalore 560001.

Tile Manufacturers' Association, W. India, Maidan West Rd., Mangalore 575001.

Trades Association, Bangalore, 53, M. Gandhi Rd., Bangalore 560001.

Trades Association, Davangere, Mandipet, Davangere 577001.

Vyapari Mandal, Market Rd., Mangalore 575001.

Vyapari Sangh, Belgaum, 691, Raviwarpeth, Belgaum 590001.

Wine Merchants' Association, Bangalore, 111, Brigade Rd., Bangalore 560001.

Woollen Handloom Weavers Co-op. Socy. Ltd., Karnataka State, 147, Infantry Rd., Bangalore 560001.

CULTURAL, SOCIAL AND PROFESSIONAL

Agricultural Marketing Development Society Ltd., S. Kanara Dist. Co-op. Marketing, S.C.C.C. Bank Bldg., K. S. Rao Rd., Mangalore 575001.

Agriculture, Indian Chamber of, 517, Rajamahal Vilas Extn., Palace Upper Orchards, Bangalore 560006.

Bar Association, Bangalore, High Court Bldg., Bangalore 560001.

Billiards Association, Karnataka State, 5-D, Brigade Rd., Bangalore 560001.

Biological Chemists (India), Society of, Indian Institute of Science, Bangalore 560012.

Bodybuilders Association, Karnataka Amateur, 27, 2nd Block, Rajajinagar, Bangalore 560010.

Carrom Association, Karnataka State, E-80, 27th Cross, Huriopet, R.T. St., Bangalore 560002.

Child Welfare, Karnataka State Council for, 135, 3rd Cross, Nandidurga Rd., Bangalore 560006.

Cricket Association, Karnataka State, Cricket Stadium, M. Gandhi Rd., Bangalore 560001.

Dairymen's Association, Mysore, 14, Hospital Rd., Bangalore 560002.

Dental Association, All India, Dental College, Fort, Bangalore 560002.

Electrochemical Society of India, Indian Instt. of Science, Bangalore 560012.

Electronic Engineers, Society of, P.O. Box 5108, High Grounds, Bangalore 560001.

Electronics & Telecommunication Engineers, Institution of, 36, II Main Vyali-Kaval, Bangalore 560003.

Engineers (India), Institution of, 3, Vidhana Veedhi, Bangalore 560001.

Family Planning Association of India, 50, Mission Rd., Bangalore 560027.

Film Chamber of Commerce, Karnataka, 25, K. G. Rd., Bangalore 560009.

Film Guild, Kannada, Sadasivanagar, Bangalore 560006.

Fine Arts, Sri Varalakshmi Academies of, Ram Vilas, Kashipathy Agraharam, Chamaraja Rd., Mysore 570004.

Food Technologists, Association of, Central Food Technological Research Instt., Mysore 570002.

Football Association, Karnataka State, 53, Jewellers' St., Bangalore 560001.

Handloom Weavers P. & S. Assocn., Mysore, 1059, K. T. St., Mandi Mohalla, Mysore 570001.

Horticultural Society, Mysore, Lalbagh, Bangalore 560004.

Hotel Owners' Assocn., Indra Bhavan Bldg., Dhanvanthri Rd., Mysore 570001.

Indo-Soviet Cultural Society, 28, 1st Main V Block, Kumara Park W. Extn., Bangalore 560020.

Krishik Samaj (Farmers' Forum), Karnataka Pradesh, Nrupathunga Rd., Bangalore 560001.

Leprosarium, Central, Magadi Rd., Bangalore 560002.

Lorry Owner's Assocn., Bangalore Local, No. 1, II Cross, Dr. T. C. M. Rayan Rd., Cottonpet, Bangalore 560053.

Lorry Owners' Association, Karnataka State, Raja Mansion, Kalasipalayam, Bangalore 560002.

Medical Association, Indian, I.M.A. House, Alur Venkat Rao Rd., Bangalore 560018.

Meera Welfare Society, 15, Cambridge Rd., Bangalore 560006.

Mine Owners' Association, Karnataka State, 13, Park Area, Wilson Gardens, Bangalore 560027.

Moneylenders & Pawn Brokers' Association, Bangalore, 83, D. S. Lane, Chickpet Cross, Bangalore 560053.

Olympic Association, Karnataka State, 18, Mahatma Gandhi Rd., Bangalore 560001.

Photography, Federation of Indian, 50, Sri Ram Mandir Rd., Bangalore 560004.

Planters Association, Karnataka, Chickmagalur 577101.

Popular Association, Bangalore, 71, Hospital Rd., Bangalore 560053.

Productivity Council, Belgaum Divisional, 777, Nilgiri Cottage, Khanpur Rd., Tilakwadi, Belgaum 590006.

Productivity Council, Karnataka State, 10, Race Course Rd., Bangalore 560001.

Productivity Council, Malnad, K. R. Puram, Hassan 573201.

Productivity Council, Mangalore, 24, Milagress Mansions, Hampankatta, Mangalore 575001.

Public Utility Service Assocn., All India, HAL Police Qtrs., Marathahalli, Bangalore 560017.

Ramaseva Mandali, Shree, 189, 4th Main Rd., Chamarajpet, Bangalore 560002.

Red Cross Society, Indian, 51, III Cross Rd., Basavangudi, Bangalore 560004.

Sahitya Parishad, Kannada, Hardinge Rd., Chamarajpet, Bangalore 560018.

Sales Tax Payers' Assocn., Mysore City, Room No. 6, Gayathri Bldgs., Chamaraja Double Rd., Mysore 570004.

Sangeetha Nataka Academy, Mysore State, Ravindra Kalakshetra, Bangalore 560002.

Sciences, Indian Academy of, P.O. Hebbal, Bangalore 560006.

Share Holders' Assocn., Mysore, III Flr., Indian Bank Bldg., K.G. Rd., Bangalore 560009.

Sports Council, Karnataka State, Sri Kanteerva Stadium, Bangalore 560001.

Tuberculosis Association, Karnataka State, 3, Union St., Bangalore 560001.

Vanita Seva Samaj, Puranik Rd., Dharwar 580001.

Weightlifters Association, Karnataka State, 1042, 2nd Cross, Sreerampuram, Bangalore 560021.

EDUCATIONAL AND RESEARCH

Adult Education Council, Karnataka State, Idigara Krishnamurthypuram, Mysore 570004.

Ayurved Vidyapeeth Society, Karnatak, Khasbag, Belgaum 590001.

Biological Control, Commonwealth Institute of, P. Box 1403, Bangalore 560009.

Bowring Institute, 19, St. Mark's Rd., Bangalore 560001.

Corporate Secretaries, Institute of, 28, Ist Main, Fifth Block, Kumara Park West, Bangalore 560020.

English, South India Regional Institute of, 6A, Cunningham Rd., Bangalore 560052. Estd. in 1963 by the Govts. of A.P., Kerala, Karnataka & Tamil Nadu in collaboration with the British High Commission, British Council Divn., with the primary arm of offering diversified trg. to key personnel in the field of English language teaching in these States. *Dir.*, Shaikh Mowla.

Food Craft Institute, S. J. Polytechnic Bldgs., Bangalore 560001.

Jointly sponsored by the Govt. of India and the Govt. of Karnataka to train men and women for Catering Industry, and to provide better, more nutritive and wholesome meals on a large scale in industrial canteens, hospitals and other catering establishments. The trg. also emphasises the need to change the food habits of people in view of acute shortage of food and ever increasing population problem. *Principal :* Charles A. Wesley.

Foremen Training Institute, Tumkur Rd., Bangalore 560022.

Genetic Studies, Institute for, 230, 12th Cross, Wilson Gardens, Bangalore 560027.

Historical Research Society, Karnatak, College Rd., Dharwar 580001.

Horticultural Research, Indian Institute of, 255, Upper Palace Orchards, Bangalore 560006.

International Understanding, Art, Edn., Culture & Social Welfare, Institute of, Gokarn (North Kanara Dt.).

Leprosy Relief and Research Institute of Ayurveda, Arunodaya, P.O. Kengeri, Bangalore South.

Machine Tool Institute, Central, Tumkur Rd., Bangalore 560022. A Research and Development Organisation for metal cutting machine tools. *Dir. :* R. K. Gejji.

Management, Indian Institute of, 3, Langford Rd., Bangalore 560027.

Mental Health, All India Institute of, Hosur Rd., Bangalore 560027.

Mineralogical Society of India, Mansa Gangotri, Mysore 570006.

Oriental Research Institute, Mysore 570001.

Plywood Industries Research Institute, Indian, Tumkur Rd., Bangalore 560022.

Public Affairs, Gokhale Institute of, Narasimharaja Colony, Basavangudi, Bangalore 560004.

Raman Research Institute, P. O., Hebbal, Bangalore 560006.

Science Association, Current, Raman Research Institute, Bangalore 560006.

Science, Indian Institute of, Bangalore 560012. The Institute has the status of a University. *Pres. of the Court :* J. R. D. Tata, *Chmn. of the Council :* G. K. Chandiramani, *Dir. :* Satish Dhawan, *Registrar :* S. S. Prabhu.

Serum Institute, Mysore, Hebbal, Bangalore 560024.

Social & Economic Change, Institute for, Carlton House, Palace Rd., Bangalore 560001. An all India Instt. for inter-disciplinary research & trg. in social sciences.

Social Sciences, National Institute of, 40, Wellington St., Richmond Town, Bangalore 560025.

Speech and Hearing, All India Institute of, Mansagangothri, Mysore 570006.

Technical & Management Education, Society of, Bank of India Bldg., K. G. Rd., Bangalore 560009.

Technological Institute, Shri Krishnarajendra Silver Jubilee, Krishnarajendra Circle, Bangalore 560001.

Tuberculosis Institute of India, National, Avalon, Bellary Rd., Bangalore 560003. 1. Community survey to study the epidemiology of tuberculosis & applied research in T.B. bacteriology, sociology & methods of control.

2. A nationally applicable T.B. programme with further research to evaluate and adapt the same to the changing conditions. 3. Offers a 13-week trg. course to T.B. control teams deputed by State Govts., 4. Provides technical assistance to Karnataka, T. Nadu, Andhra Pradesh & Kerala in the management of Dist. T.B. programmes. *Dir.:* Dr. D. R. Nagpaul.

Water Pollution, Karnataka State Board for Prevention & Control of, P. Box 40, Bangalore 560001.

World Culture, Indian Institute of, 6, B. P. Wadia Rd., Basavangudi, Bangalore 560004.

KERALA

COMMERCIAL

Automobile Association of Kerala, Collectorate Jn., Kottayam 686001.

Automobile Association of Southern India, Chittoor Rd., Ernakulam, Cochin 682011.

Automobile Spare Parts Dealers' Association, All Kerala, Mannadiar Lane, Umalayam, Trichur 680001.

Bus Owners' Association, C/o C.W.M.S. Pvt. Ltd., Wynaad Rd., Calicut 673001.

Cashewnut Manufacturers' Association, South India, Quilon 691001.

Coir Mats and Matting Manufacturers' Association, Travancore, Alleppey 688001.

Coir Merchants' Association, Cochin, Indian Chamber Bldg., Cochin 682002.

Coir Producers' and Dealers' Association, Kerala, Alleppey 688001.

Coir Yarn Merchants' Association, Travancore-Cochin, Rajagopala Mandiram, Mullakkal, Alleppey 688001.

Dairy Products Importers' Association, Jain Temple Trust Bldg., IV/47, New Rd., Cochin 682002.

Employers' Federation, West Coast, Bristow Rd., Cochin 682003.

Foodgrains & Provision Merchants' Association, Calicut, Calicut 673001.

Grain Merchants' Association, Bazar Road, Cochin 682002.

Handicrafts Apex Co-operative Society Ltd., Kerala State, M. G. Rd., Cochin 682016.

Handloom Assocation, Kerala, Fort Rd., Cannanore 670001.

Hardware Merchants' Association, Cochin, Bazar Road, Cochin 682002.

Hill Produce Merchants' Association, Cochin, Jew Town, Cochin 682002.

Industrialists' Association, West Coast, Empress Hotel Rd., Calicut 673001.

Karshaka Publishing Co-op. Society Ltd., All Cochin, Mahatma Press, Palace Rd., Trichur 680001.

Lemongrass Oil Exporters' Association, Indian, P. Box 12, Alwaye 683101.

Manufacturers' Organisation, All India, Narayana Nivas, Krishnaswamy Iyer Rd. Jn., Ernakulam, Cochin 682011.

Market Committee, Malabar, 8/80, Silk St., Calicut 673001.

Marketing Federation Ltd., Kerala State Co-operative, Jew Town, Cochin 682002.

Oil Merchants' Association, Cochin, Jew Town, Cochin 682002.

Oil Millers' Association (Regd.), Kerala State, Ernakulam Mills Bldgs., Ernakulam, Cochin 682016.

Oil Millers' & Merchants' Association, Alleppey, Naga Mahal Bldgs., Alleppey 688001.

Paper, Cutlery and Allied Traders' Association, Cochin, IV/47, New Rd., Cochin 682002.

Pepper and Spice Trade Association, India, VI/142, Jew Town, Cochin 682002.

Piecegoods Merchants Association, Calicut, S. M. St., Calicut 673001.

Plywood Manufacturers' Association, South India, Empress Hotel Rd., Calicut 673001.

Press Owners' Association, Ernakulam, Deepam Press Bldgs., Basin Rd., Ernakulam, Cochin 682011.

Produce Merchants' Association, Alleppey, Alleppey 688001.

Produce Merchants' Association, Malabar, 8/91, Silk St., Calicut 673001.

Saw Mills' Association, Malabar, Kallai, Calicut 673003.

Seafood Canners' and Freezers' Association of India, XIX/5, Kochangadi, Cochin 682005.

Seafood Exporters Association of India, VII/389, Kochangadi, Cochin 682005.

Small Industries Association, Kerala State, Opp. Hantex Bldg., Ootukuzi Jn., Trivandrum 695001.

Small Industries Association, Kozhikode Dist. Kallai, Calicut 673003.

Soap Makers' Association, South India, Oyitty Rd., Calicut 673001.

Tea Buyers' Association, Indian Chamber Bldg., Cochin 682002.

Tea Trade Association of Cochin, Sebrof House, Willingdon Island, Cochin 682003. *Chmn.:* D. W. McCririck: V. *Chmn.:* Anil S. Doshi; *Secy.:* N. K. Rajan.

Tile Manufacturers' Association, Central Kerala, Trichur 680001.

Tile Manufacturers' Association, Travancore, Quilon 691001.

Timber Exporters' Association, Kozhikode, Mooriyad, Calicut 673001.

Timber Merchants' Association, South Malabar, Kallai, Calicut 673003.

Tobacco & Beedi Leaves Merchants' Association, Calvethy, Cochin 682001.

Tobacco Merchants Union, M. [illegible] Rd., Calicut 673001.

Varthaka Mandalam, Kozhikode Jilla, Kallaikottai Bldgs., Kallai Rd., Calicut 673002.

CULTURAL, SOCIAL AND PROFESSIONAL

Arunodaya Kala Samithi, Kavasseri (Palghat Dt.).

Ayyappa Seva Sangam, All Kerala, Kottayam 686001.

Blind Welfare Association, Kerala, Mankadapallipuram P. O., Angadipuram.

Child Welfare, Kerala State Council for, 15/167, Bhakthivilas Rd., Trivandrum 695014.

Civic Organisation, Cochin Citizens' (Regd.) Jew Town, Cochin 682002.

Engineers (India), Institution of, 12/33B, Observatory Hill, Trivandrum 695001.

Family Planning Association of India, Red Cross Rd., Trivandrum 695001.

Gandhi Ashram, Mayannur, Via Ottapalam.

Gandhi Seva Sadan, P. O., Gandhi Seva Sadan, Via Perur, Palghat Dist.

Kalamandalam, Kerala, State Academy of Arts P. O. Cheruthuruthy.

Keralites International Service Society, T. P. VII/386, Thodupuzha, Idikki Dist.

Law Institute, Indian (Kerala Unit), High Court Bldgs., Ernakulam, Cochin 682011.

Medical Representatives' Associations of India, Federation of, Hope Villa, Gandhamariammankoil St., Trivandrum 695001.

Nair Service Society, Perunnai, Changanacherry 686101.

Natana Niketanam, Trichur 680001.

Planters of Kerala, Association of, P. O. Muttambalam (Kottayam Dist.).

Productivity Council, Kerala State, Productivity House, Kalamassery, Alwaye 683104.

Red Cross Society, Indian, Red Cross Rd., Trivandrum 695001.

Sahithya Akademi, Kerala, Trichur 680001.

Sahithya Pravarthaka Co-operative Society, Kottayam 686001. A co-operative organisation of the authors of Kerala with branches in Trivandrum, Ernakulam & Trichur.

Sangeetha Nataka Akademi, Kerala, Trichur 680001.

Social Work, Indian Council of, C/o Inst. of Social Work, Rajagiri, Kalamassery, Alwaye 683104.

Soviet Culture, House of, Gorki Bhavanam, Vanross Jn., Trivandrum 695001.

Statistical Institute, Indian, Chittoor Rd., Ernakulam, Cochin 682011.

Tamil Sangham, Trivandrum, Chenthittai, Trivandrum 695001.

Trawlers' Association, Lalan Rd., Cochin 682002.

EDUCATIONAL AND RESEARCH

Fisheries Project, Integrated (Indo-Norwegian), Foreshore Rd., Ernakulam, Cochin 682016. Set-up in 1952 at Neendakara and subsequently shifted to Ernakulam with the extension of its activities to Tamil Nadu and Karnataka. *Objects :* Exploratory & experimental fishing for pelagic fishes, offshore & deep sea fishes, demonstration & popularisation of fish and diversfied fish products in internal & external markets, consultancy services, trg. of technl. personnel for fishing ind., provisions of repair facilities for fishing trawlers, etc.

Fisheries Technology, Central Institute of, P. B. No. 39, Chittoor Rd., Ernakulam, Cochin 682011.

Food Craft Institute, Kalamassery, Alwaye 683104.

Industrial and Commercial Research Society of India, Vallia Veedu, Kozhencheri.

Rubber Research Institute of India, Kottayam 686009.

Supervisory Development, Institute of, Angamali.

Taxation, Indian Institute of, Convent Rd., Trivandrum 695001.

Space Centre, Vikram Sarabhai, Post ISRO, Trivandrum 695022.

MADHYA PRADESH

COMMERCIAL

Anaj Tilhan Vyapari Mahasangh, Madhya Pradesh, Hanumanganj, Bhopal 462001.

Anaj Tilhan Vyavasayee Sangh, Narmada Sambhag, Pipariya.

Ancillary Units Association, H.E. Ancillary Ind. Estate, Bhopal 462024.

Automobile Dealers Association, Gwalior, Jayendra Ganj, Gwalior 474001.

Automobile Dealers' Association, Indore, C/o Sanghi Bros. (Indore) P. Ltd., 8, Manoramaganj, Indore 452001.

Automobile Merchants' Association, Bhopal, Hamidia Rd., Bhopal 462024.

Bidi Cigarette Vyapar Samiti, High Court Rd., Gwalior 474001.

Cloth Merchants Assocn., Gwalior Wholesale, Naya Bazar, Gwalior 474001.

Commercial Exchange Ltd., Central India, More Bazar, Gwalior 474001.

Hosiery Manufacturers' Association, Gwalior, C/o Rashtriya Hosiery Works, Lashkar, Gwalior 474001.

Industrial Association, 41, Industrial Estate, Gwalior 474004.

Industries, Association of M. P., 25/36, Ind. Estate, Polo Ground, Indore 452003.

Industries, Madhya Pradesh Organisation of, 33, Malaviyanagar, Bhopal 462003.

Laghu Udyog Sangh, Gwalior Sambhang, Lohiya Bazar, Gwalior 474001.

Machinery Dealers' Association, Patankar Bazar, Gwalior 474001.

Marketing Federation Limited, M. P. State Co-operative, Maheshwari Bldg., P.O. Jehangirabad, Bhopal 462001.

Petrol Dealers' Association, Dindayal Mkt., Stn. Rd., Gwalior 474001.

Pustakalaya Sangh, Indore Sambhag, 11 Khatipura Rd., Indore 452001.

Readymade Vastra Vikreta Sangh, Madhya Pradesh, 479, M. G. Rd., Indore 452001.

Sind Mahajan Exchange Ltd., Morar Bazar, Gwalior 474001.

Small Industries Co-op. Society Ltd., Gwalior, Patankar Bazar, Gwalior 474001.

Sona Avam Chandi Vyavasai Sangh, Sarafa Bazar, Gwalior 474001.

Sugar Mills' Association, Madhya Pradesh, 134, Devi Ahilya Mrg., Indore 452003.

Tambaku Vyapariyan Sangh, Inderganj, Gwalior 474001.

Textile Association India (Regd.), C/o Hukamchand Mills Ltd., Indore 452003.

Textile Mills Association, Madhya Pradesh, 11, South Tukoganj, St. No. 1, Indore 452001.

Timber Merchants Association, Gwalior, Daulatganj, Gwalior 474001.

CULTURAL, SOCIAL AND PROFESSIONAL

Blind, Madhya Pradesh Welfare Association for the, 84, Veer Savarkar Mkt., Indore 452004.

Homoeopathic & Biochemic Association, Central, Kasera Oli Mrg., Gwalior 474001.

Junior Chamber of Commerce, Chameli Chowk, Sagar.

Library Association, Bhilai 490001.

Local Authorities, Federation of All India, Chandralok, Satna 485001.

Pharmaceutical Society, Univ. of Saugor, Sagar.

Productivity Council, Indore, B-14, Industrial Estate, Indore 452003.

Scheduled Castes/Tribes & Other Backward Classes Welfare Association, Durg Dist., St. 34, Block I/A, Sector 7, Bhilainagar.

EDUCATIONAL AND RESEARCH

Applied Sciences, Birla Research Institute for, Birlagram, Nagda.

Earth & Environmental Sciences, Academy of, School of Studies in Geology, Vikram Univ., Ujjain 456001.

Forest Research Institute, State, Ratannagar, Jabalpur 482001.

Jiwaji Industrial Research Laboratory, Tansen Rd., Gwalior 474002.

Oriental Research Institute, Scindia, Vikram Univ., Vikram Kirti Mandir, Ujjain 456001.

Plant Industry, Institute of, Old Residency Area, Indore 452001.

Technological Institute, Shri Govindram Seksaria, Opp. Nehru Park, Indore 452001.

Tribal Research Institute, Chhindwara.

MAHARASHTRA

COMMERCIAL

Advertisers Ltd., Indian Society of, 148, M. Gandhi Rd., Bombay 400023.

Advertising Agencies Assocn. of India, 111A, M. Gandhi Rd., Bombay 400023.

Advertising Agents' Association of India, Railways, 1107, Prasad Chambers, Opera House, Bombay 400004.

Aerated Water Mfrs.' Association, Bombay, 69, Tardeo Rd., Bombay 400034.

Agarwoods Exporters' Assocn., 204, Nagdevi St., Bombay 400003.

Alkali Manufacturers' Association of India, Bansilal Mansion, 11, Homi Mody St., Bombay 400023.

Alloy Steel Producers' Association of India, Shree Worli Rd. No. 13, Worli, Bombay 400018.

Arms Dealers' Association, Bombay, 246, Abdul Rehman St., Bombay 400003.

Audit Bureau of Circulations Limited, Wakefield House, B. Estate, Bombay 400038. The Bureau engages itself in the certification of circulation figures of publications enrolled with it, and disseminates information so collected to all its members. *Chmn.:* P. C. Gupta; *Dy. Chmn.,* S. C. Banta; *Hony. Secy.:* C. A. Narayan; *Hony. Treasurer:* Ayaz S. Peerbhoy; *Secy.:* S. D. Kumar.

Automobile and Ancillary Industries Association, All India, 80, Dr. A. Besant Rd., Bombay 400018.

Automobile Association, Western India, 76, Veer Nariman Rd., Bombay 400020. *Secy. Genl.:* K. G. Subramanian; *Secy.:* L. C. Fonseca. *Branch Offices:* The Cellar, Khanpur Rd., Ahmedabad, 380001; 7, Moledina Rd., Pune 411004; Cathedral Business Blocks, Residency Rd., Nagpur 440001; Rajendra Bhavan, F/74, Subhas Marg, C-Scheme, Jaipur 302002; Tourist Hostel, Panaji 403001.

Automobile Associations, Federation of Indian, 76, Veer Nariman Rd., Bombay 400020.

Automobile Dealers' Associations, Federation of, 534, Sardar V. P. Rd., Bombay 400007.

Automobile Dealers' Association of Maharashtra Ltd., C/o Bombay Chamber of Commerce & Ind., Mackinnon Mackenzie Bldg., B. Estate, Bombay 400038.

Automobile Manufacturers, Association of Indian, Army and Navy Bldg., M. Gandhi Rd., Bombay 400023. *Secy.,* C. V. K. Murthy Rao.

Bakers' Association, Bombay, Court House, Lokmanya Tilak Marg, Bombay 400002.

Ball Bearing Merchants' Association, All India, 105, Abdul Rehman St., Bombay 400003.

Bangles Manufacturers' Assocn., All India Plastic, Shanti Nagar, Mukta Baug, Near Malad Sub-way, Malad West, Bombay 400064.

Banks Association, Indian, Stadium House, Veer Nariman Rd., Bombay 400020.

Banks' Federation, All India State Co-operative, 'Shivasbakti", B. G. Kher Mrg., Worli, Bombay 400018.

Bidi Industry Association, Maharashtra, 1, Soona Mahal, Marine Drive, Bombay 400020.

Bobbin Manufacturers' Association, All India, 1007, Prasad Chambers, Opera House, Bombay 400004.

Bolts Nuts Merchants' Assocn., Bombay, 81, Nagdevi Cross Lane, Bombay 400003.

Booksellers' Association, Bombay, C/o Usha Book Depot, 585A, Chira Bazar, Bombay 400002.

Bright Steel Manufacturers' Association of India, Astoria Bldg., Block 211, Churchgate, Bombay 400020.

Builders' Association of India, G-1/G-20, Commerce Centre, J. Dadajee Rd., Tardeo, Bombay 400034.

Bullion Association Limited, Bombay, 185, Sheikh Memon St., Bombay 400002.

Camphor Tablets Manufacturers' Association, Bombay, 218, Samuel St., Bombay 400003.

Canvas & Tarpaulin Merchants' Association, Bombay, 245, Musjid Bunder Rd., Bombay 400003.

Cement Manufacturers' Association, Express Bldg., Opp. Churchgate Rly. Stn., Bombay 400020.

Cement Tiles Manufacturers' Association, 8/10, Green St., Bombay 400023.

Charcoal Merchants' Association Ltd., Bombay, Coal Depot, Sewri, Bombay 400015.

Chemical and Alkali Merchants' Association, Himalaya House, Palton Rd., Bombay 400001.

Distributes chemicals & other products imported by STC to consumers through 'Chemical & Alkali Distributors Ltd.', sponsored by the Assn.; has also sponsored 'Chemical & Alkali Indl. & Warehousing Co-op. Socy. Ltd. to start small-scale industries and build warehouses for their members; a charitable trust, 'Chemical & Alkali Merchants' Assn. Relief Fund' has also been created to render help to people suffering from natural calamities. *Pres.:* P. C. Mehta; *Vice-Pres.:* K. T. Sanghvi; *Hon. Secs.:* C. S. Bakshi, K. G. Advani.

Chemical Importers & Dealers Association, All India Fine, Bharat Mahal, Subhas Rd., Bombay 400002.

Chemical Industry, Technical Information Centre for, 16, Apollo St., Bombay 400023.

Chemical Manufacturers' Association, Indian, 16, Bombay Samachar Mrg., Bombay 400023.

Chemical Plant & Machinery Association of India, C/o Bombay Chamber of Commerce & Ind., Mackinnon Mackenzie Bldg., B. Estate, Bombay 400038.

Chemists' and Druggists' Association, 48, S. Gandhi Mrg., Bombay 400002.

Clearing Agents' Association, Bombay Customs House, Warden House, Sir P. Mehta Rd., Bombay 400001.

Cloth Dealers' Associations, Federation of Bombay Retail, 24/30, 1st Marine St., Bombay 400002.

Clothing Manufacturers' Association of India, Mahalaxmi Chambers, Block No. 902, 22, Bhulabhai Desai Rd., Bombay 400026. *Pres.:* P. N. Amersey; *V. Pres.:* Hamid Ismail; *Hon. Gen. Secy.:* S. L. Shah; *Secy.:* Prof. J. J. Desai.

Clove Merchants Association, Bombay, 177, Samuel St., Bombay 400009.

Coal & Coke Merchants' Assocn. Ltd., Bombay, C/o P. D & Co. P. Ltd., Byculla Goods Depot Yard, Bombay 400027.

Colour and Chemical Merchants' Association, Bombay Kariana, 225-27, Samuel St., Bombay 400003.

Company Secretaries' Association, C/o Ulka Advertising, Nirmal, Nariman Point, Bombay 400021.

Copperware Mfg. Association, Small-Scale, 39, Bhajipala St., Bombay 400003.

Corrugated Box Manufacturers' Association, Western India, 1, Sarvodaya Ind. Estate, Mahal Estates, Mahakali Rd., Andheri East, Bombay 400093.

Corrugated Box Mfrs. of India, Federation of, 1, Sarvodaya Ind. Estate, Mahal Estates, Mahakali Rd., Andheri East, Bombay 400093.

Cotton Association Limited, East India, Cotton Exchange, Marwari Bazar, Bombay 400002.

Cotton Buyers' Association, Eucharistic Congress Bldg., 4th Floor, 5, Convent St., Bombay 400039.

Cotton Merchants' and Muccadums' Association Ltd., Bombay, 72-73, Cotton Exchange Bldg., Sewri, Bombay 400015.

Cotton Mills Federation, Indian, Elphinstone Bldg., 10, Veer Nariman Rd., Bombay 400001. *Chmn.:* K. Sundaram; *Dy. Chmn.:* Balkrishna Harivallabhdas; *Vice-Chmn.:* Rasesh N. Mafatlal; *Secy.-Genl.:* B. G. Kakatkar.

Cotton Waste Exporters' Association, All India, Sapt Bldg., Graham Rd., B. Estate, Bombay 400038.

Cottonseed Crushers' Association, All India, 198, Jamshedji Tata Rd., Bombay 400020. *Chmn.:* M. P. Mansinghka; *Vice-Chmn.:* E. A. Kader, N. D. Sirur; *Hon. Secy.:* K. T. Rajani.

Crimpers Association, All India, Silk House, Silk Bazar, Bombay 400002.

Cutlery, Toys, Glass Beads and Sundry Merchants, Association, Bombay, 106, Bhusari Mohalla, Bombay 400003.

Diamond Merchants' Association, Bombay, 3, Dhanji St., Bombay 400003.

Drop Forging and Stamping Industries, Association of Indian, 80, Dr. A. Besant Rd., Bombay 400018.

Drug Manufacturers' Association, Indian, Sujat Mansion, S. V. Rd., Andheri West, Bombay 400058.

Dyestuff Manufacturers' Association of India, Room Nos. 46-47, 296, Samuel St., Bombay 400003.

Electric Merchants' Association, Shreeji Bhavan, Lohar Chawl, Bombay 400002.

Electric Motor Mfrs.' Assocn., All India, Hague Bldg., 4th flr., Sprott Rd., B. Estate, Bombay 400038.

Electrical Cable Development Association, 503, Arun Chambers, Tardeo Rd., Bombay 400034.

Electrical Contractors' Association, 63, New Stock Exchange Bldg., Apollo St., Bombay 400023.

Electrical Manufacturers' Association, Indian, Himgiri, Pedder Rd., Bombay 400026.

Electricity Undertakings of India, Federation of, Transport House, S. Bhagat Singh Rd., Bombay 400039.

Electronic Component Industries Association, Handloom House, Dr. D. Naoroji Rd., Bombay 400001.

Electronic Industries Association, Small Scale, 1203, Prasad Chambers, Tata Rd., Bombay 400004.

Embroidered Textile Manufacturers' Association, All India, Bombay Cotton Mills Estate, Dattaram Lad Path, Kalachowki Rd., Bombay 400033.

Employers' Federation of India, Army & Navy Bldg., 148, M. Gandhi Rd., Bombay 400023. *Pres.:* Naval H. Tata; *Vice-Press.:* N. M. Wagle, A. L. Mudaliar, C. G. Ramanathan; I. P. Anand; *Secy.:* N. M. Vakil.

Engineering Industry, Association of Indian, (W. Regn.), Brabourne Stadium, 87, Veer Nariman Rd., Bombay 400020. *Chmn.:* Jayant H. Shah; *Dy. Chmn.:* K. Rodenhvis; *Secy.:* A. C. Patankar.

Exercise Books Manufacturers' Association, All India Federation of, 183, Abdul Rehman St., Bombay 400003.

Fair Trade Practices Association, Great Western Bldg., Mezzanine Flr., Apollo St., Bombay 400023.

Ferro Alloy Producers' Association, Indian, 14, M. Karve Rd., Bombay 400020.

Fertiliser Association of India, W. Regnl. Branch, 305, Neelkanth, 98, Marine Drive, Bombay 400020.

Fertiliser Co-operative Ltd., Indian Farmers, Ujam Nivas, N. Subhas Rd., Bombay 400056.

Flour Mills Owners' Association, Bombay, Parekh Wadi, V. P. Rd., Bombay 400004.

Food Processing Industry Association, Indian, C/o Ardeo, 13/19, Medows St., Bombay 400001.

Footwear Mfrs.' Association, All India, 'Nirmal', 3rd Floor, Nariman Point, Bombay 400021.

Foreign Trade, Indian Council of, 5, New Marine Lines, Bombay 400020.

Foundry Owners' Association, Bombay Type, B-196, Gaiwadi, Girgaum, Bombay 400004.

Freight Brokers' Assocn., Bombay Overseas, C/o H. Toolsidass, 5, Graham Rd., B. Estate, Bombay 400038.

Fruit & Vegetable Merchants' Assocn., F Block, Room No. 13, Sitaram Bldg., Near Jyotiba Phule Mkt., Bombay 400001.

Glass Manufacturer's Association, Western, C/o Mahalakshmi Glass Works Pvt. Ltd., Dr. E. Moses Rd., Bombay 400011.

Glass Merchants' Association, All India, 166, Abdul Rehman St., Bombay 400003.

Goods Transport Association, Bombay, Mehta Chambers, Kalyan St., Bombay 400009.

Grain Dealers' Association, Bombay, 103, Keshavji Naik Rd., Bombay 400009.

Grain Dealers' Federation, Retail, 'Shiv Mahal', 84-86, Dr. Maheshwari Rd., Bombay 400009.

Grain & Provision Dealers' Association, Bombay Suburban, Liberty Shopping Centre, Hill Rd., Bandra, Bombay 400050.

Grain, Rice & Oilseeds Merchants' Association, 72-80, Yusuf Meheralli Rd., Bombay 400003.

Groundnut Extractions Export Development Association, Tanna House, 11-A, Wodehouse Rd., Bombay 400039.

Gunny Bags Merchants' Assocn., Bombay, 67, Bhandari St., Bombay 400003.

Handloom Fabrics Marketing Co-operative Society Ltd., All India, Bharatiya Bhuvan, P. D'Mello Rd., Bombay 400001.

Hardware Merchants' Association, Bombay, 57, Sarang St., Bombay 400003.

Hessian & Gunny Merchants Association, Bombay, 395, Narsi Natha St., Bombay 400009.

Hosiery Manufrs.' Association, Bombay State, 70/72, Chakla St., Bombay 400003.

Hosiery Manufrs.' Associations of India, Federation of, Stretchlon House, 68, Sheriff Devji St., Bombay 400003.

Hotel and Restaurant Association (W. India), Taj Intercontinental, R. No. 16, Mezzanine Flr., Apollo Bunder, Bombay 400039.

Hotels' Association, Bombay, 243, Masjid Bunder Rd., Bombay 400003.

Importers' Association, All India, 32, Nariman Rd., Bombay 400001.

Industrial Diamond Mfrs.' Assocn., C/o Bombay Chamber of Commerce & Ind., Mackinnon Mackenzie Bldg., B. Estate, Bombay 400038.

Industrial Estate Association, Kandivlee, Plot 16, Kandivli Ind. Estate, Kandivli, Bombay 400067.

Industries, All India Association of, Wakefield House, 11, Sprott Rd., Ballard Estate, Bombay 400038.

Industries' Association, Bombay, Sahakar Bhavan, Nari Seva Sadan Rd., Kurla, Bombay 400077.

Industries' Association, Gujarat, Brabourne Stadium, 87, Veer Nariman Rd., Bombay 400020.

Industries of India, Federation of Associations of Small, Fort Chambers, Tamarind Le., Bombay 400023.

Instrument Manufacturers' and Dealers' Association, All India, A-32, Navyug Nivas, Dr. D. Bhadkamkar Mrg., Bombay 400007.

Instruments Export Organisation, IMDA, A-32, Navyug Nivas, 167, Dr. D. Bhadkamkar Rd., Bombay 400007.

Insurance Association of India, Bombay Regnl. Council, Radia House, 6, Rampart Row, Bombay 400023.

Iron Merchants' Association, Bombay, 501, Steel Centre, Sant Tukaram Rd., Bombay 400009.

Iron & Steel Scrap Association of India, 301/2, 3rd Flr., Giriraj, 73, Sant Tukaram Rd., Bombay 400009.

Kariana, Colour & Chemical Merchants' Assocn., Bombay, Vanijya Bhavan, 225/27, Samuel St., Bombay 400003.

Kariana Merchants' Association, Bombay Mudibazar, 43, Kazi Syed St., Bombay 400003.

Leather Goods Manufacturers and Dealers' Association, 157, Princess St., Bombay 400002.

Livestock Feed Manufacturers' Association of India, Compound, 165/166, Backbay Reclamation, Bombay 400020.

Lorry Operators' Syndicate, Bombay, 575, Sheriff Devji St., Bombay 400003.

Machine Tool Manufacturers' Association, Indian, Great Western Bldg., 130/32, S. Bhagat Singh Rd., Bombay 400023. *Pres.:* Vinod L. Doshi; *Vice-Pres.:* Dr. C. A. Phalnikar; *Hon. Secy.:* S. D. Sulakhe.

Man-made Fibre Industry, Association of, 78, Veer Nariman Rd., Bombay 400020.

Man-made Fibre Spinners' Association, Moti Mahal, Churchgate Reclamation, Bombay 400020.

Manufacturers' Association, West Suburban, C/o American Spring & Pressing Works P. Ltd., Adarsh Society, Off Marve Rd., Malad, Bombay 400064.

Manufacturers' Organisation, All India, Jeevan Sahakar, Sir P. Mehta Rd., Bombay 400001. *Pres.:* S. K. Somiaya; *Vice-Press.:* F. S. Baldiwala, I. P. Poddar, G. Sivappa, Manubhai L. Parikh; *Hon. Treasurer,* S. P. Mandelia; *Hon. Gen. Secy.,* Anwar Divecha; *Hon. Secs.:* B. P. Thakkar, N. S. Rao; *Exec. Dir.,* N. G. Abhyankar.

Marble & Tile Merchants' Assocn., Bombay, C/o C. Bhogilal & Co., Mint Rd., Bombay 400001.

Marketing Federation Ltd., Maharashtra State Co-operative, Kanmoor House, Narsi Natha St., Bombay 400009.

Mercury Traders' Association Ltd., Bombay, 220, Samuel St., Bombay 400003.

Metal Exchange Ltd., Bombay, Gogate Mansion, Kika St., Bombay 400002.

Metal Finishers' Association, 198, Sion (West), Bombay 400022.

Mill Gin Store Merchants' Association, 88/92, Nagdevi Cross Lane, Bombay 400003.

Millowners' Association, Elphinstone Bldg., Veer Nariman Rd., Bombay 400001. *Chmn.:* Rasesh N. Mafatlal *Dy. Chmn.:* J. P. Goenka; *Secy.:* R. L. N. Vijayanagar.

Mineral Merchants' & Mfrs.' Assocn., Bombay, 129, Kazi Syed St., Bombay 400003.

Motor Merchants' Association Ltd., Bombay, Sukh-Sagar, Sandhurst Bridge, Bombay 400007.

Motor Parts Dealers' Association, Maharashtra, 34, Mathew Rd., Bombay 400004.

Motor Transport Associations, Federation of, 26, P. D'Mello Rd., Bombay 400009.

Mutton Dealers' Association, Bombay, Jam-e-Masjid, Bandra, Bombay 400050.

Non-Ferrous Metal Industries Assocn., All India, C/o Jeewanlal (1929) Ltd., Liberty Bldg., Marine Lines, Bombay 400020.

Oil Industry Association, All India Non-Edible, Royal Insurance Bldg., J. Tata Rd., Bombay 400020.

Oil Industry and Trade, Central Organisation for, Anna Bhavan, 87/C Broach St., Bombay 400009.

Oil Millers' Association Ltd., Bombay Local, 363, Katha Bazar, Bombay 400009.

Oil and Produce Exporters' Association, Indian, Anna Bhavan, 87/C Broach St., Bombay 400009.

Oilseeds and Oils Exchange Ltd., Bombay, Jenabai Bldg., Yusuf Meherally Rd., Bombay 400003.

Onion & Potato Wholesale Merchants' Assocn., 438, Duncan Rd., Bombay 400004.

Overseas Freight Brokers Association, C/o H. Toolsidass & Co., 5, Graham Rd., Ballard Estate, Bombay 400038.

Packaging Mfrs. Forum, All India Flexible, 904-B, Surya Apartments, 53, Warden Rd., Bombay 400026.

Paint and Allied Industries Association, All India Small Scale, 310, Arun Chambers, Tardeo Rd., Bombay 400034.

Paint Association, Indian, C/o Bombay Chamber of Commerce & Ind., Mackinnon Mackenzie Bldg., B. Estate, Bombay 400038.

Pan Bazar Association, Lokmanya, 2, Khetwadi, Bombay 400004.

Paper & Allied Products Manufacturers' Association, All India, Vaswani Mansion, 120, D. Vachha Rd., Bombay 400020.

Paper Traders' Association, 54, Sutar Chawl, Bombay 400002.

Paper Traders' Association of India, Federation of, Commerce House, 140, N. Master Rd., Bombay 400001.

Pearl Dealers' Association, Genuine, 82/86, Abdul Rehman St., Bombay 400003.

Pepper and Ginger Merchants' Association Ltd., 332-34, Narsi Natha St., Bombay 400009.

Perfumes & Flavours Association of India, Devkaran Mansion No. 3, 43, Princess St., Bombay 400002. *Pres.:* Kantilal N. Shah; *Vice-Pres.:* G. D. Kelkar; *Treasurer:* Mukund R. Shah; *Hon. Secy.:* Y. J. Gore.

Petrol Dealers' Assocn., Room No. 4, 2nd Flr., Tardeo Airconditioned Market Bldg., Tardeo, Bombay 400034.

Petroleum Products Dealers' Assocn., Raj Petroleum Products, 5/7, Syed Mukri St., Narsi Natha St., Bombay 400009.

Pharmaceutical and Allied Manufacturers' and Distributors' Association, Ltd., Mackinnon Mackenzie Bldg., B. Estate, Bombay 400038. *Pres. :* Dr. S. K. Bhattacharya ; *V. Pres. :* S. U. Sitaram ; *Hon. Secy. :* P. B. Oza.

Pharmaceutical Association, Indian, Kalina, Santa Cruz (East), Bombay 400029.

Pharmaceutical Producers of India, Organisation of, Cook's Bldg., Dr. D. Naoroji Rd., Bombay 400001. *Pres. :* S. V. Pillai ; *Vice Press. :* G. J. Medley, K. J. Divatia.

Photographers' Association, Professional, Vanguard Studios, Opp. Thakurdwar P. O., Bombay 400002.

Photographic and Allied Trades Association Ltd., Western India, Mangrol Mansion, 6, Gunbow St., Bombay 400001.

Piece-Goods Merchants' Mahajan, Bombay, 250, Sheikh Memon St., Bombay 400002.

Pipes and Fittings Merchants' Association, Bombay, 84, Nagdevi St., Bombay 400003.

Plastics Manufacturers' Association, All India, Jehangir Bldg., M. Gandhi Rd., Bombay 400023. *Pres. :* B. L. Boolani ; *Vice-Press. :* Dr. R. M. Thakkar, B. K. Mehta, J. N. Singh, S. Ramaswamy ; *Hon. Secy. :* Sajjangoal Poddar ; *Hon. Treasurer :* Jagdish A. Shah ; *Secy.* : A. H. Srikanta Aiyar.

Plywood & Board Industries Assocn., Karnataka, 4, Shoorji Vallabhdas Marg, Bombay 400038.

Powerloom Industries Association, 12, Rampart Row, Bombay 400023.

Precious Stones Importers & Exporters Association, Gurukul Chambers, Mumbadevi Rd., Bombay 400002.

Press Owners' Association, Bombay, 196 B, Gaiwadi, Bombay 400004.

Printers, All India Federation of Master, C/o Bombay Samachar Ltd., Horniman Circle, Bombay 400023.

Printing Materials & Ink Dealers Assocn., C/o Gandhi Stationery Mart, 178, Bazar Gate St., Bombay 400001.

Produce Exporters' Association, Indian, 76, Sheriff Devji St., Bombay 400003.

Publications Association, Specialised, 235, Dr. D. Naoroji Rd., Bombay 400001.

Publishers' and Booksellers' Associations in India, Federation of, C/o India Book House, Rusi Mansion, 29, Nathalal D. Parikh Mrg., Bombay 400039.

Radio & Electronics Society of India, 4, Kurla Ind. Estate, Agra Rd., Ghatkopar, Bombay 400086.

Radio Electronic and Television Manufacturing Association, C/o Lovelock & Lewis, Neral House, Graham Rd., B. Estate, Bombay 400038.

Radio Merchants Association, All India, Sukh Sagar, Hughes Rd., Bombay 400007.

Refrigeration and Air Conditioning Trades Association Limited, C/o Bombay Cycle & Motor Agency Ltd., 534, Sardar V. Patel Rd., Bombay 400007.

Rice Merchants' Association Bombay, 72, Y. Meheralli Rd., Bombay 400003.

Roads and Transport Development Association Limited, Indian, 27, Bastion Rd., Bombay 400001.

Rubber Industries Association, All India, Navjivan Soc. Bldg., Lamington Rd., Bombay 400008.

Salt Manufacturers' Association, Indian, Tanna House Annexe, 11-A, Nathalal D. Parikh Marg, Bombay 400039.

Salt Merchants' & Shilotries' Assocn., Bombay, 583, Chira Bazar, Bombay 400002.

Sanitaryware Association, Bombay, 8/10, Green St., Bombay 400023.

Scientific and Surgical Instrument Manufacturers' and Traders' Association, Devkaran Mansion, 43, Princess St., Bombay 400002.

Screen Printers & Processors Association, Bombay, Neelam, Plot No. 108, Worli Sea Face, Bombay 400018.

Sheet Rollers' Association, Western India, 32, R. Kamani Marg, Ballard Estate, Bombay 400038.

Shipowners' Association, Indian National, Scindia House, Ballard Estate, Bombay 400038. *Pres. :* Capt. J. C. Anand ; *Vice-Pres.:* N. H. Dhunjibhoy ; *Hon. Treasurer :* Capt. R. D. Kohli ; *Secy.-Genl. :* N. K. Gopalan Nair ; *Secy. :* B. V. Nilkund.

Shippers Association, Western India, Indian Merchants' Chamber, 76, Veer Nariman Rd., Bombay 400020.

Shoddy Mills Association, Indian, C/o Simplex Woollen Mills, Sadhana Rayon House, Dr. D. Naoroji Rd., Bombay 400001.

Shroffs' Association Limited, Bombay, 233, Shroff Bazar, Bombay 400002.

Shuttle Manufacturers' Association, C/o Acme Bobbins & Shuttles Pvt. Ltd., 315, S. Veer Savarkar Mrg., Bombay 400028.

Silk and Art Silk Mills' Association Limited, Resham Bhavan, 78, Veer Nariman Rd., Bombay 400020.

Silk Merchants' Association, Dahanukar Bldg., Kalbadevi Rd., Bombay 400002.

Sindwork Merchants' Association, All India, 231, Dr. D. Naoroji Rd., Bombay 400001.

Soap Manufacturers' Association, Non-Power, Sabun Bhavan, 187, Sheriff Devji St., Bombay 400003.

Solvent Extractors' Association of India, Tanna House Annexe, 11-A, Nathalal D. Parikh Mrg., Bombay 400039.

Spinning Mills Federation Ltd., Maharashtra State Co-operative, 12, Murzban Rd., Bombay 400001.

Spring Manufacturers' Association of India, All India, C/o Bombay Chamber of Commerce & Ind., Mackinnon Mackenzie Bldg., B. Estate, Bombay 400038.

Stainless Steel Industries Association, All India Arun Chambers, Tardeo Main Rd., Bombay 400034.

Stainless Steel Merchants' Assocn., 29C, Sarvodaya Nagar, Panjrapole, Bombay 400004.

Starch Manufacturers' Association Ltd., All India, 159, Colaba Rd., Bombay 400005.

Steel Furnace Association of India, C/o Mahindra Ugine Steel Co. Ltd., Worli Rd., No. 13, Worli, Bombay 400018.

Stevedores' Association Limited, Bombay, Janmabhoomi Chambers, Fort St., Bombay 400001.

Stock Exchange, Dalal St., Bombay 400023. *Pres.:* Jayant Amerchand ; *Chmn. :* P. J. Jeejeebhoy ; *Secy. :* A. J. Shah.

Sugar Factories' Association, Deccan, Stadium House, Block No. 2, Veer Nariman Rd., Bombay 400020.

Sugar Merchants' Association Limited, Bombay, Ahmedabad St., Bombay 400009.

Sugar Mills Association, Indian, 5, Convent St., Bombay 400039.

Synthetic Fibre Industry, Association of, Raj Mahal, 84, Veer Nariman Rd., Bombay 400020.

Tailors & Outfitters Assocn., Bombay Merchant, C/o Yak's, 48, Hughes Rd., Bombay 400007.

Tarpaulin Merchants' Association, Bombay, 297, Narsi Natha St., Bombay 400009.

Tax Consultants' Association of India, A-1, Sneha Sadan, N. Gamadia Rd., Bombay 400026.

Textile Association (India), 72A, Shivaji Park Corner Rd., Bombay 400028.

Textile Auxiliaries Manufacturers' Association, C/o Assocn. of Merchants & Mfrs. of Textile Stores & Machinery (India), 18/20, Rampart Row, Bombay 400023.

Textile and Engineering Association, Bombay, 343, Sattar Bldg., Grant Rd., Bombay 400007.

Textile Machinery Manufacturers' Association, 80, Dr. A. Besant Rd., Worli, Bombay 400018.

Textile Processors' Association (India), 414, Senapati Bapat Marg, Bombay 400013.

Textile Stores and Machinery, India, Association of Merchants and Manufacturers of, Bhogilal Hargovindas Bldg., 18/20, Rampart Row, Bombay 400023.

Textiles Committee, (Min. of Commerce, Govt. of India) 79, Dr. A. Besant Rd., Bombay 400018. *Chmn.:* G. K. Singhania ; *V. Chmn. :* S. K. Bagchi ; *Secy. :* P. N. Anand. *Regnl. Offices :* Ahmedabad, Bangalore, Calcutta, Coimbatore, Indore, Kanpur, Ludhiana, Madras, Madurai, Nagpur, New Delhi, Sholapur, Surat, & Amritsar. Ensures standard qualities of textiles & textile machinery for export and conducts market research surveys in textiles.

Tiffin Box Suppliers Association, Bombay, Nav Prabhat Chambers, Ranade Rd., Bombay 400028.

Timber Merchants' Association Limited, Bombay, 85-A Victoria Rd., Mustafa Bazar, Bombay 400010.

Tobacco Merchants' Association Limited, Indian, 184, Clive St., Bombay 400009.

Tractor, Earthmoving and Construction Equipment Distributors' Association Limited, Mackinnon Mackenzie Bldg., B. Estate, Bombay 400038.

Trade Fairs & Exhibitions, Indian Council of, Jhansi Castle, Cooperage Rd., Bombay 400039.

Trade and Industry, Association of Indian, Bombay Mutual Chambers, Hamam St., Bombay 400023.

Trade Mark Owners Association of India, Army & Navy Bldg., M. Gandhi Rd., Bombay 400023.

Trade & Technical Publications Association, 12, Fort Chambers, Hamam St., Bombay 400023.

Travel Agents Association of India, 35, Anjali, Behind Radio Club, Arthur Bunder Rd., Bombay 400005.

Vanaspathi Manufacturers' Association of India, Harilela House, Mint Rd., Bombay 400001.

Vegetable Oils Association of India, Anna Bhavan, 87-C, Broach St., Bombay 400009. *Pres. :* C. V. Mariwala ; *V. Pres.*, D. K. Kishnani ; *Hon. Secy. :* H. H. Lillaney ; *Hon. Treasurer :* K. N. Mehta ; *Secy. :* R. C. Sheth.

Village Industries Association, Bombay Suburban, 286, Dr. D. Naoroji Rd., Bombay 400001.

Watch Dealers' Syndicate, Bombay, 78, Abdul Rehman St., Bombay 400003.

Watch Importers Association, C/o Express Watch Co., 78, Abdul Rehman St., Bombay 400003.

Watch Material Merchants Association, C/o Zion Watch Co., 131, Nagdevi St., Bombay 400003.

Watch Straps Manufacturers' Association, All India, Empire Bldg., Dr. D. Naoroji Rd., Bombay 400001.

Watch Trade Federation, Ghadiali Bldg., 88A/99, Nagdevi Cross Le., Bombay 400003.

Woollen Mills Federation, Indian, Churchgate Chambers, 5, New Marine Lines, Bombay 400020. *Chmn. :* B. M. Grover ; *Dy. Chmn. :* U. M. Patel ; *Vice-Chmn. :* L. P. Pittie.

Yarn Merchants' Association and Exchange Ltd., Bombay, Bombay Yarn House, Nakhoda St., Bombay 400003.

X-ray & Electro-Medical Traders' Assocn., All India, Fazalbhoy Bldg., 45, M. Gandhi Rd., Bombay 400023.

CULTURAL AND SOCIAL

Agarwal Samaj Kurla, Block No. 2/300-303, Krishna Kunj, New Agra Rd., Kurla, Bombay 400070.

Ahmadiyya Movement, 'Alhaq', 17, Club Back Rd., Bombay 400008.

Ambulance Association, Popular, J. Dadajee Rd., Bombay 400007.

Ambulance Association, St. John, 141, Bhagat Singh Rd., Bombay 400001.

Ambulance Corps, Bombay City, 21, Marine Lines, Bombay 400020.

Andhra Mahasabha (Regd.), Bombay, Opp. King George High School, Lakhamsi Nappoo Rd., Bombay 400019.

Anglo Indian Association, All India, F5, Sangam Bhuvan, Opp. Strand Cinema, Colaba, Bombay 400005.

Animal Welfare Association, All India, 394A, Bhaudaji Rd., Bombay 400019.

Animals, Society for the Prevention of Cruelty to, Hospital Rd., Bombay 400012.

Anjuman-i-Faiz-i-Panjetani, 69, Samuel St., Bombay 400009.

Aquarist Society of India, New Citizen Bank Bldg., Palton Rd., Bombay 400001.

Artytoys Industrial Scheme Trust, Sir Ratan Tata Welfare Centre, Sir Ratan Tata Rd., Tardeo, Bombay 400034.

Arya Samaj, 96-98, Bora Bazar St., Bombay 400001.

Asiatic Society of Bombay, Town Hall, Bombay 400023.

Assistance, Rehabilitation, Relief & Aid, Society for, Maharashtra (Sarram), C/o Hindustan Standard, United Bank of India Bldg., Sir P. Mehta Rd., Bombay 400001.

Asthika Samaj, King's Circle, Bombay 400019.

Balkan-Ji-Bari, (All India Youth Assn.) "Gulistan", Khar, Bombay 400052.

Bapnu Ghar, 12A, A. Besant Rd., Bombay 400018.

Beggars' Home for Females, Chembur, Bombay 400071.

Bhagini Samaj, 225, N. Desai Rd., Bombay 400004.

Bhagini Samaj, Dadar, 3rd Lane, Hindu Colony, Bombay 400014.

Bharatiya Samaj, Shri Brihad, N. K. M. International, House, 178, Backbay Reclamation, Bombay 400020.

Bible Society of India and Ceylon, India House, Opp. G. P. O., Fort St., Bombay 400001.

Billawar Association, 17, Raghunath Dadaji St., Bombay 400001.

Brahman Sahayak Sangh, Shivaji Park Rd. No. 3, Bombay 400028.

Brahmin Association, Bombay South Kanara, 273, Sion Matunga Estate, Bombay 400022.

Braj Mandal, 1107, Prasad Chambers, Near Roxy Cinema, Bombay 400004.

British High Commission — British Council Division, French Bank Bldg., Homji St., Bombay 400001. *Library :* N. K. Mehta International House, 178, Backbay Reclamation, Bombay 400020.

Charitable Institution, Byramjee Jeejeebhoy Parsee, 33, Karve Mrg., Bombay 400004.

Charities, Goculdas Tejpal, 7, Bastion Rd., Bombay 400001.

Charities, N. M. Wadia, N. M. Wadia Bldg., 123, M. Gandhi Rd., Bombay 400023.

Charities, Sir Ratan Tata, Bombay House, Homi Mody St., Bombay 400023.

Cheshire Home, Bombay, Bethlehem House, Mahakali Caves Rd., Bombay 400058. The Cheshire Homes are for the incurably sick and homeless.

Child Welfare, Maharashtra State Council for, No. 10, B.D.D. Chawl, Delisle Rd., Bombay 400011.

Children's Aid Society, 83, Lady Hardinge Rd., Mahim, Bombay 400016.

Children's Film Society (India), Hingorani House, Worli, Bombay 400018.

Chinmaya Mission, Sandeepany Sadhanalaya, Vihar Rd., Bombay 400076.

Crafts Council of India, Theosophy Hall, 40, New Marine Lines, Bombay 400020. Is a non-official organisation for the promotion of the cultural & creative aspects of Crafts in India.

Cultural Relations, Indian Council for, Hem-Prabha, Subhas Rd., Bombay 400020.

Destitutes and Orphans, Bene-Israel Home for, 9A, Wylie Rd., Bombay 400011.

Dharma Society, Rashtra, Ganga Nivas, 234, Walkeshwar Rd., Bombay 400006.

Diocesan Council, Bombay, 19, Waudby Rd., Bombay 400001.

Diocesan Trust Association Ltd., 111, Gibbs Rd., Bombay 400006.

Free Enterprise, Forum of, Piramal Mansion, 235, Dr. D. Naoroji Rd., Bombay 400001.

"Gate of Mercy" Synagogue, 254, Samuel St., Bombay 400003.

Humanitarian League, Bombay, 123, Mumbadevi Rd., Bombay 400003.

Indo-American Society, Kitab Mahal, 5, Raveline St., Bombay 400001.
Estd. in 1959 for the promotion of friendship and understanding between the people of India and the people of the United States. Activities include several cultural, ednl. programmes as well as arranging of visits by leading academicians and management specialists from the United States to India. *Pres.:* G. N. Somani; *Vice-Press.:* David M. Bane, Y. P. Trivedi, Girish K. Chitalia, Mrs. Veena J. Mehta; *Jt. Hon. Secs.:* Dr. Charles A. Johnson, Shafi N. Thanawalla; *Hon. Treasurer:* K. P. Hamlai; *Exec. Secy.:* N. Krishnan.

Indo-Arab Society, 12, Nagin Mahal, Veer Nariman Rd., Bombay 400020.

Indo-Fiji Cultural Association, 12, Colaba Chambers, Wodehouse Rd., Bombay 400005.

Indo-German Cultural Centre, Max Mueller Bhavan, Prince of Wales Museum Annexe, Bombay 400021.

Indo-German Cultural Society, Lansdowne House, Lansdowne Rd., Bombay 400039.

Indo-Japanese Association, 12, Rampart Row, Bombay 400023.

Indo-Malaysia Society, Dadyset House, 44, Cawasji Patel St., Bombay 400001.

Indo-Mauritius Society, Ionic A2, Near Telephone Bhavan, Bombay 400005.

Indo-Soviet Cultural Society, Syndicate Bank Bldg., Sir P. Mehta Rd., Bombay 400001.

Indo-Swiss Society, Cama Instt. Bldg., 136, Apollo St., Bombay 400023.

Industrial Welfare Assocn., Powai Saki, J. P. House, Saki Naka, Bombay 400072.

Institute, Sir Ratan Tata, 35, G. Patkar Rd., Bombay 400007. The Institute helps to partially solve the problem of poverty and distress among families from the lower income groups, by encouraging women to earn a living through suitable industries.

Inter Mission Business Office, 364, Dr. D. Naoroji Rd., Bombay 400001.

International Co-operation, Indian Council of, 12, Colaba Chambers, Wodehouse Rd., Bombay 400005.

Iran League, Navsari Bldg., Dr. D. Naoroji Rd., Bombay 400001.

Ismailia Association for India, Karimabad, Imamwada Rd., Bombay 400009.

Janhit Mandal, Subash Niketan, Tejpal Scheme, Main Rd., V. Parle East, Bombay 400057.

Kalinga Culture, 84, Gitanjali, Arthur Bunder Rd., Bombay 400005.

Kalyan Kendra, Rashtriya, 289/91, Nagdevi St., Bombay 400003.

Kannada Sangha, Bombay, 2, Venkatesh Nivas, Bhaudaji Rd., Matunga, Bombay 400019.

Keraleeya Samaj, Bombay, "Kerala Bhavanam", K. A. Subramanian Rd., Matunga, Bombay 400019.

Konkan Cultural Association, 10, Indian Mercantile Mansion, Opp. Regal, Bombay 400039.

Kusht Nivaran Sangh, Hind, Maharashtra State Council, Red Cross Office, 141, Bhagat Singh Rd., Bombay 400001.

Labour Bureau, Bombay, Krishna Niketan, Sonawala Rd., Bombay 400063.

Labour Welfare Board, Maharashtra, Jambori Maidan, Worli, Bombay 400018.

Lady Ratan Tata Memorial Trust, Bombay House, Homi Mody St., Bombay 400023.

Mahilashram, Shraddhanand, King's Circle, Matunga, Bombay 400019.

Mai Adherents' Institute, Mai Niwas, Saraswati Rd., Santa Cruz West, Bombay 400054. *Branch Institutes:* (1) Kizhakkaumpattukara, Trichur 680005 (Kerala); (2) Perintalmanna (Kerala); (3) 6, V.O.C. St., Nandavana Mettur, Kamarajnagar, Madras 600071; (4) Mai Soundham, Vadakkanthara, Palghat 678012; (5) Mai Nagar, Polpully, Palghat; (6) 12-7-275, Mettuguda, Lalaguda, Secunderabad 500017. An instt. of brothers & sisters for the propitiation of God as Universal Mother, through Universal love & service.

Malayalee Samajam, Santa Cruz, 14, Air View Bldg., Vakola, Bombay 400055.

Manav Seva Sangh, Shree, Plot No. 255/257, Sion Rd., Sion (West), Bombay 400022.

Marine Drive Citizens' Association, 'Kalpana', 96, Marine Drive, Bombay 400020.

Marwadi Sammelan, 111-B, Jayakar Marg, Bombay 400002.

Mothers and Children Welfare Society, Bombay, No. 10, B.D.D. Chawl, M. N. Joshi Mrg, Bombay 400011.

Mothers' Lineage, Society for the Cause of, Plot No. B-2, R 105, Theosophical Colony, Juhu, Bombay 400054.

Music and Arts Society, Bharatiya, Plot H, Bhaudaji Rd. Extn., Bombay 400022.

Mysore Association, 393, Bhaudaji Rd., Matunga, Bombay 400019.

Nagpada Neighbourhood House, Sophia Zuber Rd., Byculla, Bombay 400008. *Activities:* Medical & Family Plng. Clinics, Children's Welfare Centre, Emp. Bureau, Working Men's & Women's Hostels, Libraries for adults & children, Creche, Child Guidance Clinic; Youth Counselling Centre, Class for Mentally Retarded Children; Handicrafts Sales Centre, Guest House, Reacreation Programmes. *Dir.:* P. R. Gaikwad.

Nehru Centre, Project Office, Behind Lotus Cinema, Dr. A. Besant Rd., Worli, Bombay 400018.

Objects: To create a living and vibrant memorial to Jawaharlal Nehru. Devoted to the cause of devpt. of scientific and technological interest in the people of India; to further the cause of devpt. of Creative Arts, Dramatics, Fine Arts, etc. and to provide facilities to children for imbibing the spirit of scientific devpt.; recreation facilities to the children with an emphasis on edn. and create interest in our heritage, progress made and the future. The Complex will consist of Discovery of India Hall, Theatre & Auditorium, Planetarium, etc.

Nepal Friendship Society, Bharat, Nepal Traders Agency, 95, Bhandari St., Bombay 400003.

Nilakanta Mission — Omnagar Sree, 102, Divyalok, L. D. Ruparel Marg, Malabar Hill, Bombay 400006.

Panjrapole, Bombay, Bhuleshwar, Bombay 400004.

Parsee Benevolent Institution, Sir Jamsetjee Jeejeebhoy, 209, Dr. D. Naoroji Rd., Bombay 400001.

Parsi Panchayat Funds and Properties, 209, Dr. D. Naoroji Rd., Bombay 400001.

Passengers' and Traffic Relief Association, Anand Bhavan, 346, Dr. D. Naoroji Rd., Bombay 400001.

Physical Culture Association, Bombay, 22, Nikadwari Le., Bombay 400004.

Prarthana Samaj, Girgaum, Bombay 400004.

Public Welfare Centre, Fanuswala Bldg., Sankli St., Bombay 400008.

Punjab Association, 418, Loha Bhavan, P. D'Mello Rd., Bombay 400009.

Railway Passengers Conference Association, Indian, 23, Bell Building, Sir P. Mehta Rd., Bombay 400001. Assistance to railway passengers in their dealings with the Railways with regard to their obligations to each other; restoration of run-away boys to their parents; elimination of crimes on railways against the person and property of railway passengers; free legal help to railway passengers; edn. among railway servants and railway police personnel to discourage corrupt practices. Publishers of "*Rail News*", English fortnightly. *Pres.:* C. B. L. Bhatnagar.

Ramakrishna Mission Ashram, Khar, Bombay 400052.

Red Cross Society, Indian, (Maharashtra State Branch), 141, Bhagat Singh Rd., Bombay 400001.

Relief Association, Bombay, Cook's Bldg., Dr. D. Naoroji Rd., Bombay 400001.

Religious Amity Centre, Mistry Court, 208, D. Watcha Rd., Bombay 400020.

Religious of Mary Immaculate, Regina Pacis, Seth Motishah Lane, Victoria Gardens, Bombay 400027. 1. Residential Trg. Centre, Club & Emp. Bureau for Houseworkers. 2. Home & School for destitute children. 3. Hostel for working girls students. 4. Regina Pacis Free Dispensary for the poor.

Safety First Association of India, Stadium House, Veer Nariman Rd., Bombay 400020. Devoted to conservation of life and property through elimination of accidents at home, on the road & at work; acts as a clearing house of information for accident prevention. *Pres.:* A. A. Jasdenvala; *Hon. Gen. Secy.*, D. S. Venkatraman.

Sahitya Sangh, Mumbai Marathi, Dr. Bhalerao Mrg., Bombay 400004.

Samaj Seva Parishad, 141/A, Kalina, Santacruz (E), Bombay 400029.

Samiti, Shree Ayyappa Bhakta, Star of Cochin, Opp. Broadway Cinema, Dadar, Bombay 400014.

Sanshodhan Mandal, Marathi, Mumbai Marathi Grantha Sangrahalaya, 172, Naigaum Cross Rd., Bombay 400014.

Saraswat Association, Kanara, 13, Talmakiwadi, Tardeo Rd., Bombay 400007.

Scholarship Society, Taheri, Mohamedi Baug, 21, Sarang St., Bombay 400003.

Scouts and Guides, Bharat, Scout Guide Bhavan, Marine Lines, Bombay 400020.

Sea Cadet Corps, T. S. "Jawahar", Pilot Bunder Rd., Bombay 400005. The Sea Cadet Corps is a voluntary youth organisation whose objects are to give boys & girls aged 12 to 18 sea trg. & such other trg. as will develop in them qualities of good citizenship, and to help boys wishing to make their career at sea achieve their ambition. Has Units at Calcutta, Visakhapatnam, Madras & New Delhi. It is recognised by the Govt. of India & has the privilege of using the Blue Ensign. *Secy. to the Sea Cadet Council & Captain Supdt. of the Sea Cadet Corps:* Capt. G. S. Ahuja, I.N.

Servants of God, Society of, Mayfair, 34, Little Gibbs Rd., Bombay 400006.

Servants of India Society, Sardar V. Patel Rd., Bombay 400004.

Seva Sadan, Gamdevi, Bombay 400007.

Seva Sangh, Lokmanya, Tilak Mandir, Vile Parle, (East), Bombay 400057.

Sevak Samaj, Bharat, Narandas Bldg., Sprott Rd., B. Estate, Bombay 400038.

Seventh-Day Adventists, Central India Union of, 16, Club Rd., Bombay 400008.

Shanmukhananda Fine Arts and Sangeetha Sabha, Shri, 292, Flank Rd., Bombay 400022.

Shilpi Kendra, Majestic, Colaba Causeway, Bombay 400039.

To promote, popularise & foster the traditional Indian handicrafts and help hereditary craftsmen to continue to practise their art.

Social Service, Institute of, 38, New Marine Lines, Bombay 400020.

Social Service League, Servants of India Society's Bldg., Sardar V. Patel Rd., Bombay 400004.

Social Welfare, Indian Council of, *Central Office:* 175, D. Naoroji Rd., Bombay 400001. *Pres.:* Mrs. Mary Clubwalla Jadhav; *Exec. Secy.:* S. D. Gokhale.

Social Welfare, International Council of, Regnl. Office for Asia & W. Pacific Regn.: 175, Dr. D. Naoroji Rd., Bombay 400001.

Sur-Singar Samsad, Arun, Narayan Dabholkar Rd., Bombay 400006.

Swastik League, 324A, Vithalbhai Patel Rd., Bombay 400004.

Tamil Sangham, Sion Rd., Bombay 400022.

Theosophical Society, Blavatsky Lodge, French Bridge, Bombay 400007.

Theosophists, United Lodge of, 40, New Marine Lines, Bombay 400020.

Trees, Friends of the, 42, College Lane, Bombay 400028.

Trust, Sir Dorabji Tata, Bombay House, Homi Mody St., Bombay 400023.

United Kingdom Citizens' Association, Cook's Bldg., Dr. D. Naoroji Rd., Bombay 400001.

Vanita Samaj, Bharatiya, Nair Mahal, Tulsi Pipe Rd, Bombay 400016.

Vanita Vishram, Sardar V. Patel Rd., Bombay 400004.

Vigilance Association, Bombay, 124, Dadasaheb Phalke Rd., Bombay 400014. *Objects :* (*a*) To render assistance to the abandoned, destitute, neglected and victimised girls & women ; (*b*) to rescue girls and women who are in moral danger and to provide a shelter for those who need insttnl. care for their rehabilitation ; (*c*) to prevent cruelty to girls and women and to create public opinion against exploitation of girls and women through meeting, seminars, confces., literature, etc. ; (*d*) to make every possible effort for the protection and welfare of girls and women. It also maintains shelter for neglected and destitute girls between 5 & 12 years of all communities.

Visva Yoga Bharati, Vallabhnagar, Borivli, Bombay 400092.

Women's Council, Maharashtra State, Town Hall, Bombay 400023.

Yoga Institute, Santa Cruz, Bombay 400055.

Yogic Self-Culture Society, 5, Vallabhnagar, Borivli, Bombay 400092.

Young Men's Hindu Association, 141, V. Patel Rd., Bombay 400004.

Yuvak Sangha, Mogaveera, 46, Veer Nariman Rd., Bombay 400020.

Zoroastrian Association, 16, Horniman Circle, Bombay 400023.

PROFESSIONAL AND SPORTS

Advocates' Association, Bombay, Small Causes Court, Dhobi Talao, Bombay 400002.

Aeronautical Society of India, C/o Air India, Technical Bldg., Old Airport, Bombay 400029.

Agricultural Economics, Indian Society of, Esplanade Mansions, M. Gandhi Rd., Bombay 400023.

Angling Association, Maharashtra State, Club House, Powai Lake, Bombay 400070.

Anthropological Society of Bombay, C/o K. R. Kama Oriental Library, 136, Apollo St., Bombay 400023.

Anti-Tuberculosis Association, Maharashtra State, O.H.T. Clinic, Jerbai Wadia Rd., Sewri, Bombay 400015.

Architects, Indian Institute of, Prospect Chambers Annexe, Dr. D. Naoroji Rd., Bombay 400001.

Architects & Surveyors (London), Incorporated Association of, (India Branch) 24-26, Dalal St., Bombay 400023.

Art & Craft Teachers' Association, Bombay, 62, Gujar St., Block 33, Bombay 400003.

Art Society, Bombay, Jehangir Art Gallery, Bombay 400021.

Ayurvedic and Unani Systems of Medicine, Maharashtra Faculty of, 213, Dr. D. Naoroji Rd., Bombay 400001.

Badminton Association, Maharashtra State, Brabourne Stadium (North Stand), Bombay 400020.

Ball Badminton Association, Maharashtra State, 12/289 (East), Flank Rd., Sion East, Bombay 400022.

Bank Depositors' Association, Indian, C/o Forum of Free Enterprises, 235, Dr. D. Naoroji Rd., Bombay 400001.

Bar Council of Maharashtra, High Court Extn., Bombay 400032.

Basketball Association, Maharashtra State, 4/24, Brahmanwada Rd., Bombay 400019.

Billiards Association, Maharashtra State, C/o Islam Gymkhana, Subhas Rd., Bombay 400002.

Blind, National Association for the, 51, Mahatma Gandhi Rd., Bombay 400023. To work in the whole of India for the prevention & cure of blindness and for the welfare of the blind. *Pres. :* Vijay M. Merchant ; *Hony. Secy-Genl. :* Capt. H. J. M. Desai ; *Exec. Officer :* Suresh C. Ahuja.

Bridge Association, Bombay Contract, — Bridge Association, Maharashtra, C/o Sectt. of Bombay Sporting Assns., Brabourne Stadium (North Stand), Bombay 400020.

Bridge Federation of India, Brabourne Stadium (North Stand), Bombay 400020.

Cancer Society, Indian, Dr. E. Borges Mrg., Parel, Bombay 400012. Scientific investigation of the cause, prevention & control of Cancer, public edn. on Cancer and edn. of the medical profession in latest methods of detection, diagnosis & treatment of Cancer ; combating quackery ; sponsoring of research both fundamental & clinical on the diagnosis, treatment & cure of Cancer ; establishment of free detection centres in various centres throughout India, establishing intnl. co-opn. in research, encouraging visiting professorships, awarding scholarships & fellowships in Cancer Cytology, Chemotherapy & Rehabilitation ; giving relief & rehabilitation to indigent Cancer patients ; donating apparatus to hospitals & research institutions ; organising All India Cancer Confces., establishing population-based Cancer Registries in different parts of India, undertaking public edn. in the facts about Cancer by various means including Cancer Exhibitions, etc. Publication : The Indian Journal of Cancer — Quarterly. *Chmn.*, N. H. Tata ; *Hon. Secy. & Mg. Trustee :* D. J. Jussawalla, M.S., F.R.C.S., F.A.C.S.

Cardiological Society of India, C/o Dr. B. K. Goyal, Lotus Chambers, New Marine Lines, Bombay 400020.

Carrom Association, Maharashtra State, Brabourne Stadium (North Stand), Bombay 400020.

Chartered Accountants of India, Institute of, (W. Regnl. Council), 27, Cuffe Parade, Bombay 400005.

Chartered Accountants Society, Bombay, 69-71, Ghogha St., Bombay 400001.

Chemical Society, Indian, (Bombay Branch), Institute of Science, Cama Rd., Bombay 400032.

Cine Artists Association, Famous Cine Bldg., Jagtap Marg, Bombay 400011.

Clean Environment, Society for, Garden Resort, 606, Sion-Trombay Rd., Chembur, Bombay 400071.

Commercial Artists' Guild, India House, 4th Flr., Fort St., Bombay 400001.

Company Secretaries of India, Institute of, (Western India Regnl. Council), C/o R. C. Doodmal, O.S.D., Industrial Credit & Investment Corpn. of India Ltd., Ramon House, Backbay Reclamation, Bombay 400020.

Consumer Guidance Society, Hutment 4, Mahapalika Marg, Bombay 400001.

Consumers Co-op. Societies Federation Ltd., Maharashtra Rajya Wholesale, Raj Chambers, 3rd Flr., 87-A, Broach St., Bombay 400009.

Consumers, Federation Limited, National Co-operative, Prasad Chambers, Opera House, Bombay 400004.

Co-operative Union, Maharashtra State, 1, Bank St., Bombay 400001.

Costs and Works Accountants of India, Institute of, Rohit Chambers, Ghogha St., Bombay 400001.

Cricket Association, Bombay, North Stand, Brabourne Stadium, Bombay 400020.

Custom House Agents' Assocation in India, Federation of, Warden House, Sir P. Mehta Rd., Bombay 400001.

Dairymen's Association, B/15, Worli Dairy Staff Quarters, Worli Sea Face, Bombay 400018.

Dental Council, Maharashtra State, Swadeshi Mills Estate, M. Parmanand Marg, Bombay 400004.

Diabetic Association of India, Maneckji Wadia Bldg., 127, M. Gandhi Rd., Bombay 400023.

Documentary Producers' Association, Indian, National House, Tulloch Rd., Apollo Bunder, Bombay 400039.

Economic Development Council, Maharashtra, 106, Nagindas Master Rd., Bombay 400001.

Employment Exchange Bureau Unlimited, Friends', 65, Chinchbunder Rd., Bombay 400009.

Engineering and Commerce, Indian Society of, Commonwealth Bldg., Oak Lane, Bombay 400001.

Engineers, Architects & Townplanners' Association, Practising, C/o G. L. Raheja & Associates, Rampart House, Rampart Row, Bombay 400023.

Engineers, Bombay Society of Model, 23/24, Noble Chambers, Parsi Bazar St., Bombay 400001.

Engineers (India), Institution of, 15, Haji Ali Park, Clerk Rd., Bombay 400034.

Engineers' Association (India), Mechanical, 29, Walchand Hirachand Marg, Bombay 400001.

English-Speaking Union of the Commonwealth, C/o British Council, French Bank Bldg., Homji St., Bombay 400001.

Estate Agents' Association of India, Sheel Chambers, Cawasji Patel St., Bombay 400001.

Film Directors' Association, Indian, 501, "Navin Asha", D. Phalke Rd., Bombay 400014.

Film Exporters Association, Indian, Goverdhan Bldg., 2nd flr., Office of the Excelsior Film Exchange, Parekh St., Bombay 400004.

Film Federation of India, 91, Walkeshwar Rd., Bombay 400006.

Football Association, Western India, Cooperage Football Ground, Bombay 400020.

Football Federation, All India, 92, Dr. D. Naoroji Rd., Bombay 400001.

Haemotologists, Indian Society of, C/o Dr. J. G. Parekh, Parekh House, New Queen's Rd., Bombay 400004.

Handicapped, National Society for Equal Opportunities for the, C/o Tata Deptt. of Plastic Surgery, Balaram Bldg., Sir J. J. Group of Hospitals, Bombay 400008.

Heart Disease & Rehabilitation, Society for the Prevention of, Sunbeam, Vivekanand Rd., Bombay 400060.

Hockey Association, Bombay, D. Rd., Bombay 400020.

Homoeopathic Association, Bombay, 311, Tardeo Rd., Nana Chowk, Bombay 400007.

Homoeopathic Physicians (Regd.), Association of, Ashwin House, K. A. Subramaniam Rd., Bombay 400019.

Hospitality Committee, Bombay, 2-B, Mistry Court, 208, Dinshaw Vatcha Rd., Bombay 400020. To bring about closer contacts amongst various nationalities of Bombay; to foster friendship & cordial understanding between the people of Maharashtra & adjoining States; to work for national unity, solidarity, internl. amity, peace and national integration.

Housing Federation Ltd., Bombay Co-operative, 19, Bell Bldg., Sir P. Mehta Rd., Bombay 400001.

Housing Finance Society Ltd., Maharashtra Co-operative, Temple Bar Bldg., 70, Dr. V. B. Gandhi Mrg., Bombay 400001.

Income-tax Consultants, Chamber of, Sunbeam Chambers, 7, Marine Lines, Bombay 400020.

Industrial Engineering, Indian Institution of, NITIE Campus, Vihar Lake Rd., Bombay 400087. A national body for the profession of Industrial Engineering. *Pres.*, S. S. Rangnekar; *Chmn.:* V. K. S. Menon; *Hon. Secy.:* R. N. Kini.

Insurance Brokers Association, Bombay, 19, Homi Modi St., Bombay 400023.

Insurance Surveyors & Adjusters, Institute of, Lakshmi Bldg., Sir P. Mehta Rd., Bombay 400001.

Journalists, Bombay Union of, Prospect Chambers Annexe, Dr. D. Naoroji Rd., Bombay 400001.

Junior Chamber, Indian, Akash Ganga, 89, Bhulabhai Desai Rd., Bombay 400026.

Justices of the Peace and the Honorary Presidency Magistrates of Bombay, Society of the, 116, Giriraj, Sant Tukaram Rd., Bombay 400009.

Khadi & Village Industries Board, Maharashtra State, 19/21, Manordas St., Bombay 400001.

Law Institute, Indian (Maharashtra State Unit), C/o Little & Co., Central Bank Bldg., M. Gandhi Rd., Bombay 400023.

Law Society, Bombay Incorporated, High Court New Bldg., Bombay 400032.

Legal Aid Society, Free, Hamam House, Hamam St., Bombay 400023.

Local Self Government, All India Institute of, 11, Horniman Circle, Bombay 400023.

Machhimar Sahakar Sangh Ltd., Maharashtra Rajya, 443, Madhavrao Rokde St., Bombay 400009.

Management Association, Bombay, Army & Navy Bldg., Mahatma Gandhi Rd., Bombay 400023.

To promote mutual exchange of knowledge, experience & ideas on the principles and practices of Management among its members; to co-operate with ednl. institutions in developing schemes of instruction in Management principles & practices; to establish a Management library in the Bombay area.

Management Consultants, Council of, Krishna Kunj, S. Bapat Mrg., Bombay 400016.

Management Consultants' Association of India, C/o Gauba Consultants P. Ltd., Kakad Chambers, Dr. A. Besant Rd., Bombay 400018.

Marine Engineers, Institute of, Nirmal, Nariman Point, Bombay 400021.

Maritime Union of India, 204, Dr. D. Naoroji Rd., Bombay 400001.

Master Mariners of India, Company of, C/o Ericson & Richards, 32, Nicol Rd., B. Estate, Bombay 400038.

Materials Management, National Association of, Cecil Court, Lansdowne Rd., Bombay 400039.

Medical Association, Indian (*Bombay Branch*), Keshavrao Khadye Marg, Bombay 400034.

Medical Council, Maharashtra Swadeshi Mills Estate, M. Parmanand Marg, Bombay 400004.

Medical Union, Bombay, Blavatsky Lodge Bldg., French Bridge, Chowpatty, Bombay 400007.

Mental Hygiene, Indian Council for & Indian Instt. of Mental Health & Human Relations, Cambatta Chambers, 42, Maharshi Karve Rd., Bombay 400020.

Moral and Social Hygiene, Association for, Barrack No. 4, Dinshah Wachha Rd., Bombay 400020.

Newspapers' Association, Indian Language, Janmabhoomi Bhavan, Ghogha St., Bombay 400001.

Nursing Association, Jamsetjee Jeejeebhoy Hospital, Shale Bldg., Bank St., Bombay 400001.

Nursing Council, Maharashtra, Gresham Assurance Bldg., Sir P. Mehta Rd., Bombay 400001.

Obstetric & Gynaecological Societies of India, Purandare Griha, 31/C, Dr. N. A. Purandare Mrg., Bombay 400007.

Oil Technologists' Association of India, Deptt. of Chemical Technology, Matunga Rd., Bombay 400019.

Olympic Association, Maharashtra State, Brabourne Stadium (North Stand), Bombay 400020.

Ophthalmological Society, All India, Sarojini Sadan, Congress House, Bombay 400004.

P. E. N. All India Centre, Theosophy Hall, 40, New Marine Lines, Bombay 400020. Indian Branch of the Intnl. P.E.N. Club of leading poets, playrights, editors, essayists, novelists.

Pharmacy Council, Maharashtra State, 5, Military Square Lane Corner, Medows St., Bombay 400001.

Philatelic Society of India, K. D. Dinshah, Dharwar Bldg., Zorastrian Estate, Tardeo Rd., Bombay 400007.

Physically Handicapped, Fellowship of the, Haji Ali Park, Mahalaxmi, Bombay 400034.

Physicians of India, Association of, 21, Karve Mrg., Bombay 400004.

Presidency Association, Bombay, 107, M. Gandhi Rd., Bombay 400023.

Press Association of India, 196B, Gaiwadi, Girgaum, Bombay 400004.

Press Guild of India, Majestic Hotel, Bombay 400039.

Productivity Council, Bombay, Rohit Chambers, Ghogha St., Bombay 400001.

Productivity Council, National, Novelty Chambers, Grant Rd., Bombay 400007.

Property Owners' Association, Bansilal Mansion, 11, Homi Mody St., Bombay 400023.

Public Relations Society of India, Army & Navy Bldg., Rear Mezzanine Flr., Hope St., Bombay 400023. An all India body to further the avocation of public relations among practitioners of the profession, from companies, public bodies and individuals; to foster studies & research; to grant or sponsor fellowships; to publish pamphlets & books, to establish chapters, regnl. offices, reading rooms, libraries & ednl. centres, etc. etc.

Railway Claimants' Association, 149, P. D'Mello Rd., Bombay 400001.

Rheumatism Association, Indian, Commerce Centre, J. Dadajee Rd., Bombay 400034.

Sales Tax Practitioners' Association, Mohatta Mkt. Bldg., Palton Rd., Bombay 400001.

Seafarers' Federation, United, Podar Chambers, Donde Marg, Bombay 400012.

Seafarers of India, National Union of, 4, Goa St., Bombay 400001.

Secretaries, Institute of, Lentin Chambers, Dalal St., Bombay 400023.

Shareholders' Association, Bombay, 56, Dalal St., Bombay 400023.

Taximens' Union, Bombay, Navjivan Co-op. Housing Soc., D. Bhadkamkar Mrg., Bombay 400008.

Taxpayers' Association of India, Fort Chambers A., Dean Lane, Bombay 400001.

Telephone Subscribers' Association, All India, Bell Bldg., Sir P. Mehta Rd., Bombay 400001.

Tennis Association, Maharashtra State Lawn, Cooperage, Queens' Rd., Bombay 400020.

Theatre Owners Association, Navjivan Bldg., 1, Bhadkamkar Mrg., Bombay 400009.

Tourist Council, International, Darya Bldg., 375, Dr. D. Naoroji Rd., Bombay 400001.

World Affairs, Indian Council of (Bombay Branch), C/o Godrej Bhavan, Home St., Bombay 400001.

EDUCATIONAL AND RESEARCH

Adult Education Association, Bombay, 136, Apollo St., Bombay 400023.

Alliance Francaise De Bombay, French Bank Bldg., 21, Homji St., Bombay 400001.

Anglo-Scottish Education Society, 6, Purshottam Thakurdas Mrg., Bombay 400001.

Apprentice School, Dockyard, Naval Dockyard, Fort, Bombay 400001.

Dockyard Apprenticeships are offered to boys between 14-19 years under Apprenticeship Act, 1961 twice yearly in March and September. Competitive examinations and interviews are held in various recruiting centres in India. Period of apprenticeship three years.

Architecture, Academy of, Plot No. 278, Shankar Ghanekar Mrg., Next to Tyresoles, Prabhadevi, Bombay 400025.

Art, Sir Jamsetjee Jeejeebhoy School of, Dr. D. Naoroji Rd., Bombay 400001.

Asian Studies, Indian Institute of, 23, Azad Nagar, J. Prakash Rd., Bombay 400058.

Bank Management National Institute of, 85, L. Jagmohandas Mrg., Bombay 400006.

Bankers, Indian Institute of, State Bank Bldg., Apollo St., Bombay 400023.

Bharatiya Vidya Bhavan, K. Munshi Marg, Bombay 400007.

Founded in 1938 by late Kulapati Dr. K. M. Munshi; is devoted to the promotion of education, art & culture, having branches all over India and London (U.K.). *Pres.:* Dharamsey M. Khatau; *Vice-Press.:* Girdharilal Mehta, Jaisukhlal Hathi; *Exec. Secy.:* S. Ramakrishnan.

Blind, Workshop for the, Dr. A. Besant Rd., Worli, Bombay 400025. To provide work experience & trg. in skilled & semi-skilled jobs and to assist the trained blind to get open competitive employment. *Chmn.:* Sohrab K. Khan; *Hon. Secs.:* Prabodh B. Vaidya, M. H. Mirchandani, Lt. G. L. Nardekar, Capt. H. J. M. Desai.

Blindmen's Association, 81-A, Jaldarshan, Nepean Sea Rd., Bombay 400036. (Affiliated Assns. at Ahmedabad & Pune). Services to provide higher edn. to deserving blind students; Interest free loans for starting small business ventures, medical treatment & other projects leading to social or economical rehabilitation; Annual picnics; Annual Braille reading competitions for blind children & adults in Gujarat & Maharashtra; Home visitor-*cum*-social case work service for the newly blinded. *Pres.,* Mrs. S. R. Potnis; *Hon. Gen. Secy.:* Dr. Rajendra T. Vyas.

Building Industries, Vazifdar College of, 17, Arthur Bunder Rd., Colaba, Bombay 400005.

Catering Technology and Applied Nutrition, Institute of, Veer Sawarkar Marg, Bombay 400028.

Cercle Litteraire Bibliotheque Dinshaw Petit— 60, Forbes St., Bombay 400001. *Object :* To promote the study of French language, literature & civilization, Library & Reading Room.

Children in need of Special Care, Society for the Care, Treatment and Training of, Sewri Hill, Sewri Rd., Bombay 400015.

Children in Western India, Society for the Protection of, Byramjee Jeejeebhoy Home for Children, Matunga, Bombay 400019.

Commerce, Alexandra College of, Prospect Chambers Annexe, Dr. D. Naoroji Rd., Bombay 400001.

Commerce, Davar's College of, 51, M. Gandhi Rd., Bombay 400023.

Commerce, Laxmi College of, Sharadashram Vidyamandir, Dadar, Bombay 400028.

Commerce Educational Institutes Association, Maharashtra State, 3201, Shankar Shett Rd., Bombay 400002.

Computer Society of India, Electricity House, Santa Cruz East, Bombay 400055.

Co-operative Training Centre, Bombay, P. D'Mello Bhavan, P. D'Mellow Rd., Bombay 400001.

Crippled, Society for the Education of the, Agripada Mun. School Bldg., Motlibai St., Bombay 400011.

Crippled Children, Society for the Rehabilitation of, Haji Ali Park, Clerk Rd., Bombay 400011.

Deaf, Central School for the, and Central Institute of Teachers of the, 18, Motlibai St., Agripada, Bombay 400011. To provide full time edn. to deaf children & to train teachers ; to give advice to parents on how best to guide their children ; to integrate in normal schools capable deaf children to enable them to lead a normal life from an early age.

Education, Indian Institute of Workers', Adarshnagar, Worli, Bombay 400025.

Education, Council for Economic, 125, Wodehouse Rd., Bombay 400005.

Education Committee, Bombay City Social, Samaj Shikshan Mandir, Adarsha Nagar, Worli, Bombay 400025.

Education Institute, Bombay, Ganga Nivas, Ranade Rd., Dadar, Bombay 400028.

Education Society, Aryan, 75, Girgaum Rd., Bombay 400004.

Education Society, Bombay, Clare Rd., Byculla, Bombay 400008.

Education Society, Bombay Higher, Mistry Court, Dinshaw Vachha Rd., Bombay 400020. To provide & promote higher edn. by giving financial aid to the needy and deserving students belonging to the educationally-backward communities.

Education Society, Jain, 14, Marzban Rd., Bombay 400001.

Education Society, National Kanada, Sewri-Wadala Estate, Bombay 400031. Conducts a High School at Sewri-Wadala Estate.

Education Society, People's, Anand Bhavan, Dr. D. Naoroji Rd., Bombay 400001. To promote higher edn. amongst the poorer people in general & the backward classes in particular. The Society runs 4 Colleges, 3 Diploma Institutes, 1 Night High School & a Research Centre in Bombay. 4 Colleges, 2 High Schools & a Buddhist Centre at Aurangabad and 1 College in Mahad ; 1 High School & 1 Backward Classes Hostel at Pandharpur & 1 Backward Classes Hostel at Dapoli (Ratnagiri Dist.). The Society gives annual grant-in-aid to the Backward Classes Hostel at Manmad, Nandurbar, Chalisgaon, Pune, Mahad, Nipani, Dholka, Patan & Vasmat. *Chmn.* Justice R. R. Bhole ; *Secy. :* K. B. Talwatkar.

Education Society, Rao Bahadur S. V. Rajadhyaksha G. S. B. Foreign, Chikitsaka Samuha Bldg., Kandewadi, Bombay 400004.

Education Society, Young Men's, 18, Karwar St., Bombay 400001.

Educational League, Bombay, Shri Bhuwan, 169/20, Thakurdwar Rd., Bombay 400002.

Educational and Vocational Guidance Association, All India, 25, Souter St., Bombay 400008.

Electrical Measuring Instruments, Institute for Design of, Adjoining Eastern Express Highway, Chunabhatti, Kurla, Bombay 400070. Set up by the Govt. of India under U. N. Assistance Programme for assistance in the development of Electrical Measuring, Process Control & Electronics instruments industry in the country. *Principal Dir. :* R. N. Gandhi.

Family Planning Association of India, 1, Jeevan Udyog, Dr. D. Naoroji Rd., Bombay 400001. Has 35 Branches. Activities include edn. & service for family plng.: trg. of medical & field personnel ; clinical & field research and programmes in population edn. Affiliated to the Intnl. Planned Parenthood Fedn. *Pres. :* Smt. Avabai B. Wadia.

Family Planning Trg. & Research Centre, 332, Sardar V. Patel Rd., Bombay 400004.

Fisheries Education, Central Institute of, Kakori Camp, Jaiprakash Rd., Versova, Bombay 400061.

Foreign Languages Bureau, Nandan Van, 2, Nandan Van, Behind Dena Bank, Santacruz East, Bombay 400055.

Fundamental Research, Tata Institute of, Homi Bhabha Rd., Bombay 400005 (Estd. 1945). The Institute carries out fundamental research in physics, mathematics & allied sciences. It is managed by a Council consisting of the representatives of the Govts. of India & Maharashtra and the Sir Dorabji Tata Trust. J. R. D. Tata (*Chmn.*) ; Prof. M. G. K. Menon, F.R.S. (*Dir.*).

Gemmological Institute of India, C/o Precious Stone Importers & Exporters Assn., Gurukul Chambers, Mumbadevi Rd., Bombay 400002. Provides facilities for study of gemmology & for testing weighment and valuation of gem stones of all kinds, thereby introducing scientific methods in the precious stones trade.

Haffkine Institute, (Now being split into two autonomous bodies—Haffkine Institute for Trg., Research & Testing and Haffkine Bio-Pharmaceutical Corpn. Ltd., Parel, Bombay 400012. It undertakes research in the fields of bacteriology, experimental medicine, chemotherapy, pharmacology, pathophysiology, biochemistry, haematology, immunology & virology. It manufactures some bacterial & viral vaccines, antitoxins, plasma products, diagnostic reagents & other biologicals. It also undertakes biological standardization and evaluation of drugs. Scientists may study here for Master's or Doctorate degrees or could be trained in specialised fields. *Dir. :* Dr. B. B. Gaitonde.

Handicapped, National Society for Equal Opportunities for the, 95-K, Park, Bhulabhai Desai Rd., Bombay 400026.

IMC Economic Research and Training Foundation, 76, Veer Nariman Rd., Bombay 400020.

Indian Languages, Oriental Institute of, 32, Khorshed Bldg., Sir P. Mehta Rd., Bombay 400001.

Industrial Economics, Institute of, Bombay Mutual Chambers, Hamam St., Bombay 400023.

Industrial Engineering, National Institute for Training in, Vihar Lake Rd., Bombay 400087. A Govt. of India Project undertaken with the assistance of the U.N. Special Fund through the I.L.O. The main objective is to organise and develop in India comprehensive facilities for training executives in the area of Industrial Engg. & allied subjects. The Institute has also started research consultancy activities. A two-year Post Graduate Programme in Industrial Engg. was started from July 1971. *Dir. :* Dr. K. Pennathur.

Industrial Research & Development Centre, M. Visvesvaraya, Cuffe Parade, Colaba, Bombay 400005.

Industrial Safety, Council of, Elphinstone Bldg., Veer Nariman Rd., Bombay 400001.

Industrial Security, Institute for Training in, Farmec House, Shastri Marg, Vikhroli, Bombay 400083.

Industry & Administration, Siddharth Institute of, Anand Bhavan, Dr. D. Naoroji Rd., Bombay 400001.

Instructors, Central Training Institute for, Sion-Chembur Rd., Bombay 400070.

Insurance Institutes, Federation of, Universal Insurance Bldg., Sir P. Mehta Rd., Bombay 400001.

Inter-Religious Understanding, Institute for, Aquinas Hall, Mount Mary, Bombay 400050.

Jamsetjee Nasserwanjee Petit Institute, 312, Dr. D. Naoroji Rd., Bombay 400001.

Labour Institute, Bombay, (Govt. of Maharashtra), D. Chamarbaugwala Rd., Parel, Bombay 400012. Recognised by the Bombay Univ. as a post-graduate Instt. of specialised studies leading to 2-year Univ. Masters' Degree in Labour Welfare (M.L.W.). The course is open to candidates with a Bachelor's Degree of Bombay Univ. in any faculty or a degree of another Univ. recognized as equivalent thereto. The Instt. also guides students for Ph.D. and the admissions are open to the D.L.W. or M.L.W. students.

Labour Management, National Institute of, M. G. Textile Technical School Premises, Parel, Bombay 400012.

Leather Technology, Institute of, Bombay 400051.

Local Self-Government, All-India Institute of, 11, Horniman Circle, Bombay 400023.

Management, M.M.C. School of, Court Chambers, New Marine Lines, Bombay 400020.

Management Studies, Jamnalal Bajaj Institute of, 164, Backbay Reclamation, Bombay 400020.

Marine Technologists, Institution of, C/o Ericson & Richards, 32, Nicol Rd., B. Estate, Bombay 400038.

Mathematical Science, Society of, C/o Indian Institute of Technology, Powai, Bombay 400076.

Natural History Society, Bombay, Prince of Wales Museum Compound, Bombay 400021.

Nature Cure Society, Citizen's, C/o Dr. J. M. Jussawalla, 140, Cumballa Hill, Bombay 400026.

Occupational Therapy Training School and Centre, K. E. M. Hospital, Parel, Bombay 400012.

Oceanography, National Institute of, Sea Shell Bldg., Versova, Bombay 400061.

Oriental Institute, K. R. Kama, 136, Apollo St., Bombay 400023.

Packaging, Indian Institute of, E-2, Marol Indl. Estate, P.O. MIDC., Andheri East. Bombay 400093. *Regnl. Office,* Madras. (*Also see under Packaging Industry.*)

Performing Arts, National Centre for the, Bombay House, 4th Flr., Homi Mody St., Bombay 400023. *Objectives:* To establish a national centre for research in the classical and folk traditional and contemporary arts & sciences of performance and communication; to ensure their preservation by recording and master classes; to disseminate knowledge and raise the standard of public understanding of music, dance, drama & related arts; and accordingly, to establish schools, auditoriums, libraries, studios & workshops. *Chmn. :* J. R. D. Tata; *Trustee-in-Charge :* Jamshed Bhabha; *Exec. Dir. :* V. K. Narayana Menon.

Physical Education, Government College of, Kandivli West, Bombay 400067.

Physical Medicine and Rehabilitation, All India Institute of, Haji Ali Park, Clerk Rd., Mahalaxmi, Bombay 400034.

Population Studies, International Institute for, Govandi Station Rd., Deonar, Bombay 400088. Jointly sponsored by the Govt. of India & the U.N. Economic Commission for Asia & the Far East for purposes of teaching & research in the field of population problems in India as well as in other Asian countries. It is the only Institute of its kind in Asia. *Dir. :* Dr. J. R. Rele.

Production Engineers, Institution of, Churchgate House, 32, V. Nariman Rd., Bombay 400001.

Protein Foods & Nutrition Development Association of India, Mahalaxmi Chambers, 22, B. Desai Rd., Bombay 400026.

Puppetry, Indian Institute of, Datta Nivas, Shivaji Park Rd., No. 5, Bombay 400016.

Radio Electric Institute, Lamington Chambers, Dadasaheb Bhadkamkar Rd., Bombay 400004.

Refraction, Bombay School of, Parker Bldg., 10, Cawasji Patel St., Bombay 400001.

Reproduction, Institute for Research in, Opp. K. E. M. Hospital, Parel, Bombay 400012. Fundamental applied research in reproduction. Search for the ideal contraceptives — cheap, simple, harmless, reliable & acceptable — by clinically testing and evaluating the many new ones being developed. Postgraduate teaching & trg. in reproductive biology and fertility control.

Road Transport, Indian Institute of, BEST House, Bombay 400039.

Sahakari Sangh, Maharashtra Rajya (Bombay Central Co-operative Institute), 11, Bank St., Bombay 400023. Imparts co-operative edn. & trg. to co-op. society members and to co-operative movement workers.

Sanskrit Vishva Parishad, (World Academy of Sanskrit), Bharatiya Vidya Bhavan, K. Munshi Marg, Bombay 400007.

Saraswat Vidyarthi Sahayak Mandali, Chikitsaka Samuha Bldg., Kandewadi, Bombay 400004.

School Association, Bombay National, Gilbert Bldg., Babulnath 2nd Rd., Bombay 400007.

Science, Institute of, 15, Cama Rd., Bombay 400032.

Silk and Art Silk Mills' Research Association, 'Sasmira', Dr. A. Besant Rd., Bombay 400018.

Social Sciences, Tata Institute of, Sion-Trombay Rd., Deonar, Bombay 400088. Founded by Sir Dorabji Tata Trust in 1936, this pioneer institution, which is deemed to be a university, offers programmes of trg. leading to the Ph.D. degree in Social Work, Ph.D. degree in Social Sciences; M.A. degree in Social Work in the fields of Criminology & Correctional Adm., Family & Child Welfare, Medical & Psychiatric Social Work, Social Research, Urban & Rural Community Devpt., Social Welfare Adm., One-Year Certificate in Social Research, M.A. degree in Personnel Management & Labour Welfare. The Institute provides accommodation for about 130 resident men & women students and some members of the staff. *Dir. :* Dr. M. S. Gore; *Registrar :* N. Krishnamoorthy.

St. Francis D'Assisi High School and Orphanage, Mount Poinsur, Borivli, Bombay 400092.

Statistical Institute, Indian, Nanabhai Mansion, Sir P. Mehta Rd., Bombay 400001.

Surgery, Rehabilitation & Research, Society for Reconstructive, C/o Tata Deptt. of Plastic Surgery, J. J. Group of Hospitals, Bombay 400008.

Synthetic Jurisprudence, Indian School of, 291A, Balaram St., Bombay 400007.

Technical Institute, Victoria Jubilee, Matunga, Bombay 400019.

Technology, Indian Institute of, P.O.I.I.T., Powai, Bombay 400076. B.Tech. (Aero. Engg., Chem., Engg., Civil Engg., Elect. Engg., Mech. Engg., & Metallurgical Engg.); M.Tech. (Aero Engg., Chem. Engg., Civil Engg., Elect. Engg. including Electronics, Mech. Engg. & Metallurgical Engg.); M.Sc. (Chem. Math., Phys. & Applied Geology); Post Graduate Diploma course in Dock & Harbour Engg., Design Engg., Computer Science, Furnace Tech., Indl. Design & Applied Hydrology Ph.D. Programmes in Humanities, Sciences & Engg., Technology. The Institute is fully residential and has accommodation for 2,350 students. *Dir.* : Dr. A. K. De.

Textile Research Association, Bombay, Bombay Agra Rd., Ghatkopar, Bombay 400077.

Trade Centre, Indian International, 310, Jolly Bhavan No. 2, New Marine Lines, Bombay 400020. Specialised in Trade Promotion, Trg., Market-Research & Publications. Organises Post-Graduate Diploma Courses in Export Business Management (DEBM). Also conducts short-term trg. courses in Intnl. Mktg., Small Industry, etc.

Vidnyan Parishad, Marathi, 4th flr., Tardeo Air-conditioned Mkt., Tardeo, Bombay 400034.

Water Pollution Board, Maharashtra Prevention of, NSCI Bldg., Worli, Bombay 400018.

Wool Research Association, C/o Textile Mfg. Dept., V.J.T.I., Matunga, Bombay 400019.

Workers' Education Centre, 197, Turner Rd., Bandra, Bombay 400050.

Yoga University, Khatri Estate, Falkland Rd., Bombay 400008.

Associations in Maharashtra Districts

COMMERCIAL

Agricultural Purchase & Sale Society Ltd., Arvi Tehsil, Arvi (Wardha Dist.).

Ancillary Industries Corpn. (Regd.), Kolhapur, 1038, E. Rajaram Rd., Udyamnagar, Kolhapur 416001.

Bakery Owners' Assocn., Satara Dist., Ganga Niwas, 23, Bhavani Peth, Satara City 415001.

Bidi Industry Association, Sholapur, Post Box 12, Sholapur 413001.

Booksellers Association, Poona, C/o Hindustan Sahitya, 309, Shaniwar Peth, Pune 411030.

Cloth & Yarn Merchants' Assocn., Wholesale, Wholesale Cloth Mkt., Gandhibag, Nagpur 440002.

Cotton Merchants Association, Vidarbha, Cotton Mkt., Akola 444001.

Dal Mill Owners' Assocn., Vidarbha, Bagadganj, Nagpur 440008.

Dhanya & Kirana Kirkol Vyapari Sangh, Nasik City, 517, Ravi Tambat Ali, Raviwarpeth, Nasik 422001.

Fabricators' Association (S.S.I.), ICEM Compound, Wagle Estate, Thana.

Ginning & Pressing Factories Assocn., Jalgaon, Dhulia and Nasik Dist., Post Box No. 14, Amalner (Jalgaon Dist.).

Grain & Kirana Merchants' Assocn., Nasik, 469, Raviwarpeth, Nasik 422001.

Grain & Seeds Merchants' Assocn., Wholesale, Anaj Bazar, Itwari, Nagpur 440002.

Hardware & Machinery Merchants' Assocn., Sangli, Sangli 416416.

Hardware and Steel Merchants' Association, Nagpur, Lahaoli, Itwari Bazar, Nagpur 440002.

Hotel Owners Assocn., Nagpur, Ramgalli, Ruikar Rd., Nagpur 440002.

Industrial Estate Co-operative Society Ltd., Sangli, Madhavnagar Rd., Sangli 416416.

Industries Association, Aurangabad, 15-A, Ind. Estate, Aurangabad 431001.

Industries Assocn., Dombivli, Care Bofan, C-18, M.I.D.C., Dombivli (Thana Dist.).

Industries Association, Khopoli, Khopoli (Kolaba Dist.).

Industries Association, Vidarbha, 31, Panchsheel Bldg., Nehru Marg., Nagpur 440001.

Industries & Mfrs. Assocn., Nasik, C/o N.I.C.E., Nasik Industrial Area, Satpur, Nasik 422007.

Kapad Merchants' Assocn., Sangli, Sangli 416416.

Kirana Vyapari Sangh, Achalpur Taluka, P.O. Achalpur Camp (Amravati Dist.).

Kirana Merchants' Assocn., Nagpur Itwari, Lakhmasaw-ka-Akhada, Maskasath, Itwari, Nagpur 440002.

Management Association, Nagpur, C/o Nag-Vidarbha Chamber of Commerce, Temple Rd., Nagpur 440001.

Manufacturers' Association, Deccan, "Rose Cottage", Sangli Madhavnagar Rd., Sangli 416416.

Manufacturers' Association, Kalyan Ambarnath New Municipal Bldg., Kalyan.

Manufacturers' Association, Thana, C/o Paper Products Ltd., Majiwada, Agra Rd., Thana 400601.

Merchants' Association, Ahmednagar Adate Bazar, 2311, Adate Bazar, Ahmednagar 414001.

Merchants' Association Ltd., Barsi, Gala No. 36, Jawahar Mkt. Yard, Barsi.

Merchants' Association, Belapur, Belapur (Ahmednagar Dist.).

Merchants' Association Ltd., Jalna, Rajendra Prasad Rd., Jalna.

Merchants' Federation, Kopargaon Taluka, Kopargaon (Ahmednagar Dist.).

Merchants' Association Ltd., Lasalgaon, Lasalgaon (Nasik Dist.).

Merchants' Association, Nasik Road-Deolali, Nasik Road (Nasik Dist.).

Merchants' Association Ltd., Shrirampur, Shrirampur (Ahmednagar Dist.).

Merchants & Commission Agents Association, Dhulia, Agra Rd., Dhulia 424001.

Mineral Industry Association, 'Mineral House', Nagpur 440001.

Mining Association, M. P. & Vidarbha, Post Box No. 8, Nagpur 440001.

Oil Industry Association, All India Non-Edible, 'Taru Sneha', 1153, Ganeshkhind Rd., Pune 411016.

Oil Merchants' Assocn., Maskasath, Itwari, Nagpur 440002.

Paper Traders' Association, Poona, C/o Jupiter Paper Mart, Raviwar Peth, Shroff Bazar, Pune 411002.

Petrol Dealers' Assocn., Nagpur, C/o Lamba Traders, Esso Dealers, Near Commerce Coll., Nagpur 440001.

Poultry Association, Maharashtra State, C/o Poultry Dev. Officer, Govt. of Maharashtra, Pune 411003.

Powerloom Owners' Association, Madhavnagar, 292, Main Rd., Madhavnagar.

Powerloom Weavers' Co-op. Assocn. Ltd., Ichalkaranji, Ward No. 9, Mal Bagh, Ichalkaranji 416115.

Press Owners' Association, Ahmednagar, Ahmednagar 414001.

Press Owners' Association Ltd., Poona, 'Mudrak Bhavan', 1078, Sadashiv Peth, Pune 411030.

Sadi Adat Vyapari Mandal, Malegaon, Opp. Swami Narayan Temple, Malegaon. (Nasik Dist.).

Salt Merchants' & Shilotries Syndicate, Uran, Uran. (Kolaba Dist.).

School Books Publishers' Association, Maharashtra, 2040, Sadashiv Peth, Tilak Rd., Pune 411030.

Small Scale Industries Assocn., Ahmednagar Dist., Afali Pharmaceuticals Ltd., St. Rd., Ahmednagar 414001.

Small-Scale Industries Association, Vidarbha, Liberty Bldg., Sadar, Nagpur 440001.

Spices and Oilseeds Exchange Limited, Wakhar Bagh, P. No. 162 Sangli 416416. The only Exchange in India recognised for control & regulation of forward trading in Turmeric.

Stationery & General Merchants' Assocn., Sangli 416416.

Steel & Hardware Chamber of Vidarbha, 'Pitruchayya Bldg.', Benind Amardeep Talkies, Bhandara Rd., Itwari, Nagpur 440002.

Textile Mills' Association, Subedhar's Bungalow Rd., B. Street 4, Dhantoli, Nagpur, 440001.

Timber Merchants Assocn., Nagpur, Bagadganj, Nagpur 440008.

Transport Companies' Assocn., Nagpur, Gandhibag, Nagpur 440002.

Tyre Dealers' Assocn., Sangli Zilla, Sangli 416416.

Vyapari Association, Sangamner, Rajasthan Chowk, Sangamner. (Ahmednagar Dist.).

Vyapari Mahajan Association, C/o Post Box No. 19, Nandurbar (Dhulia Dist.).

Vyapari Mandal, Vasai, Vasai Rd., Bassein. (Thana Dist.).

CULTURAL, SOCIAL AND PROFESSIONAL

Altrusa Club (Assn. of Women in Profession & Business), C/o Dr. (Miss) S. Iyengar, L. A. D. Coll. for Women, Nagpur, 440001.

Anath Vidyarthi Griha, Ahmednagar 414001.

Anath Vidyarthi Griha, Poona, 1786, Sadashivpeth, Pune 411002.

Baby Welfare Association, Wadia Park Rd., Ahmednagar 414001.

Balkan-ji-Bari, Bapu Gaon (Via Dahanu Rd.) Thana Dist.

Bee Keepers' Association, All India, 727, (New) Sadashiv Peth, Pune 411030.

Child Welfare, Ahmednagar District Council for, Ahmednagar 414001.

Cine Association, Central Circuit, Bhusawal 425201.

Engineers (India), Institution of, North Ambazari Rd., Nagpur 440001.

Horticultural Development Association, Maharashtra State, Horticultural Secn., Coll. of Agriculture, Pune 411005.

India Foundation, 595, Budhwar Peth, Pune 411002. Grants of scholarship & financial aid, gifts or loans, to students of outstanding merit for edn. in India & abroad irrespective of caste, creed, religion or language.

Industrial Museum, Lord Reay, Ghole Rd., Pune 411004.

Leprosy Relief Association, Ahmednagar District, Ahmednagar 414001.

Linguistic Society of India, Pune 411006.

Literature and Culture, Maharashtra State Board for, Viswakosha Unit Office, C/o Prajna Pathshala, P.O. Wai.

Maharogi Seva Mandal, Vidarbha, Tapovan, Amravati 444703. A social organisation started mainly for the treatment of leprosy patients & eradication of leprosy from the State; also rehabilitation of cured cases & ednl. facilities upto Matriculation for leprosy afflicted children. Also runs small-scale industries for ex-leprosy patients. Recognised by the State Govt. for asylum & treatment of leprosy affected long term prisoners.

Medical Association, Ahmednagar, Ahmednagar 414001.

Medical Association of India, Christian, Christian Council Lodge, Nagpur 440001.

Medical Centre, Miraj, Miraj 440001.

Pathologists, Indian Association of, Deptt. of Pathology, Miraj Medical College, Miraj 440001.

Philosophical Association, Indian, P.O. Vidarbha Mahavidyalaya, Amravati 444601.

Productivity Council, Kolhapur, Shivaji Udyamnagar, Kolhapur 416002.

Productivity Council, Pune Divisional, Maharatta Chamber Bhavan, Tilak Rd., Pune 411002.

Productivity Council, Satara Dist., 226, Ambika Bhawan, Somwarpeth, Satara City 415001.

Sarvodaya Centre, Rajur, Akola 444001.

Science, Maharashtra Association for the Cultivation of, Pune 411004.

Servants of India Society, Pune 411004. The Society's work is primarily political but it also does tribal welfare work in the Mirzapur Dist. (U.P.) Madras, A.P., Orissa & Malabar on a considerable scale.

Seva Sadan Society, Poona, 613-614, Sadashiv Peth, Pune 411002.

Seva Sangh, Sarva, Gopuri, Wardha 442001.
To build a stateless & non-exploitative society based on truth & non-violence.

Sharada Udyog Mandir, Near Jaystambha, Amravati 444601. A charitable & indl. institution to help widows & poor women by teaching handicrafts, tailoring, embroidery, etc.

University Women's Associations, Indian Federation of, 598, Congress Nagar, Nagpur 440001.

Youth Hostels' Association of India, 87, West Park Rd., Dhantoli, Nagpur 440001.

EDUCATIONAL AND RESEARCH

Agricultural Research Institute, Nimbkar, Phaltan. (Satara Dist.).

Anatomical Society of India, Deptt. of Anatomy, Medical Coll., Nagpur 440003.

Armament Research & Development Establishment, Pashan, Pune 411008.

Co-operative Management, Vaikunth Mehta National Institute of, Reserve Bank Bldgs., Ganeshkhind Rd., Pune 411016.

Dharmakosha Mandal, P.O. Wai. To conduct research in ancient Indian religion, philosophy & culture and to edit & publish encyclopædic works such as Dharmakosha, Mimamsakosha, etc.

Drugs Research Association, Indian, 561-B, Shivajinagar, Behind Congress House, Pune 411005.

Education Society, Deccan, Fergusson Coll., Pune 411004.

Education Society, Prince Shivaji, Sykes Extension, Kolhapur 416001.

Education Society, Progressive, Shivajinagar, Pune 411005.

Engineering Research Institute, Maharashtra, Dindori Mrg., Nasik 422004.

German Studies, Indian Institute of, (Max Mueller Bhavan), 14/3B, Boat Club Rd., Pune 411001.

Handmade Paper Institute, K. B. Joshi Rd., Pune 411005.

Kasturba Health Society, M. Gandhi Instt. of Medical Sciences, Sevagram, Wardha 442102.

Loka Vidyapitha, Shri Shivaji (Peoples University of Literature, Arts, Crafts and Culture), Shivaji Nagar, Morshi Rd., Amravati 444001.

Mouni Vidyapeeth, Shri, Gargoti, Kolhapur 416001. It is a research & experimental centre in the field of rural edn.

Oriental Research Institute, Bhandarkar, Pune 411004.

Philosophy, Pratap Centre of, Amalner.

Politics and Economics, Gokhale Institute of, Pune 411004.

Post-Graduate and Research Institute, Deccan College, Yervada, Pune 411006.

Prasaraka Mandali, Shikshana, S. P. College Bldgs., Pune 411030. The main object of the Society is to give edn. at moderate cost, by starting schools, colleges, etc.

Rayat Shikshan Sanstha Satara, It conducts 6 Arts, Science & Commerce, 4 Arts & Commerce, 1 Arts & Science, 2 Commerce, 2 Education, 1 Law College, 312 Secondary Schools, 7 Primary Trg. Colleges, 74 Cosmopolitan Hostels, 7 Pre & Primary Schools, 1 Panchayat Raj Trg. Centre, 3 Sanskar Kendras and 18 other institutions in 12 dists. of Maharashtra State & Belgaum Dist. in Karnataka State.

Regional Development Planning, Institute of, Wardha. A regd. society financed wholly by Govts., which undertakes research for the Govts. & local bodies.

Road Transport, Central Institute of, (Training & Research), Bhosari, Pune 411012.

Rubber Manufacturers' Research Association, Indian, B-88, Wagle Estate, Thana.

Samshodhana Mandal, Vidarbha, (Vidarbha Research Society), Near Law Coll., West High Rd., Nagpur 440001.

Small Industries Research Institute, Agricultural College Compound, Pune 411005.

Social Service, Karve Institute of, Hillside, Karvenagar, Pune 411029.

Textbook Production & Curriculum Research, M.S. Bureau of, 'Balbharati', S. Bapat Mrg., Pune 411004.

Vehicles Research & Development Institute, Ahmednagar 414001.

Veterinary & Biological Products, Institute of, Pune 411007.

Village Industries, Jamnalal Bajaj Central Research Institute for ,Maganwadi ,Wardha 442001. Estd. in 1955 under the first Five Year Plan for research & investigation for the improvement of tools & techniques of village industries. *Director-in-Charge :* Dr. R. K. Shrivastava.

Virus Research Centre (Indian Council of Medical Research), 20A, Wellesley Rd., Pune 411001. Estd. in 1952. It is a specialised institution with modern facilities for research on some fundamental & applied aspects in Virology, Immunology, Tissue Culture, Medical Entomology and Epidemiology of Virus Infections. Since its inception, the Centre has discovered over 20 new arboviruses in India and has undertaken trg. of a large number of research workers in Virology, not only from India but also from Burma, Sri Lanka, Malaysia, Philippines, Thailand, etc. It also functions as a WHO Collaborating Laboratory for Arbovirus Reference & Research. *Dir. :* Dr. N. P. Gupta.

Water and Power Research Station, Central, Khadakvasla South, Pune 411004.

Workers' Education Centre, 1035, Deep Bungalow, Pune 411016.

Yogic Research, Training and Therapeutic Institute, Kaivalyadhama S.M.Y.M. Samiti, Lonavla.

ORISSA

COMMERCIAL

Chemists & Druggists Association, Balangir 767001.

Forest Contractors & Timber Merchants Association, Sambalpur 768001.

Marketing Society Limited, Orissa State Co-operative, Station Rd., Bhubaneswar 751001.

Millowners Association, Orissa, Jobra, Cuttack 753003.

Salt Manufacturers' Association, Orissa, Cuttack 753002.

Small Scale Industries Association, Orissa, Ind. Estate, Cuttack 753010.

Textile Merchants Association, Junaliapatti, Cuttack 753001.

CULTURAL, SOCIAL AND PROFESSIONAL

Kala Vikash Kendra, K. V. K. Mrg., Cuttack 753001.

Kalinga Culture, Muhammadia Bazar, Cuttack 753002.

Productivity Council, Cuttack, Industrial Estate, Cuttack 753003.

Rice Research Workers, Association of, Central Rice Research Instt., Cuttack 753006.

Sahitya Akademi, P.O. Box 56, Bhubaneswar 751001.

Tribal Development Co-op. Society Ltd., Orissa State, Plot No. 14/F, Lewis Rd., Bhubaneswar 751002.

EDUCATIONAL AND RESEARCH

Food Craft Institute, Sachivalaya Mrg., Unit 4, Bhubaneswar 751001.

Physics, Institute of, A/105, Saheed Nagar, Bhubaneswar 751007.

Pulp & Paper Research Institute, P.O. Jay Kaypur, Koraput Dt.

Regional Research Laboratory, Bhubaneswar 751001.

PUNJAB

COMMERCIAL

Business Management Association, Punjab, Tanda Rd., Jullundur City 144001.

Co-operative Supply and Marketing Federation Ltd., P. Box No. 67, Chandigarh 160017.

Cotton Cloth Manufacturers Association, Punjab, 219, Model Town, Amritsar 143001.

Cycle Parts Manufacturers' Association, East Punjab, Gill Rd., Ludhiana 141003.

Cycle & Parts Manufacturers' Asssociation, United (Ludhians), Miller Ganj, Gill Rd., Ludhiana 141003.

Cycle Parts Suppliers' Association, Ludhiana, Miller Ganj, Ludhiana 141003.

Engineering Associations, Federation of, Tanda Rd., Jullundur City 144001.

Engineering Association of Northern India, G. T. Rd., Batala. Gurdaspur Dist.

Engineering Industry, Association of Indian, (Punjab Regnl. Office), Tanda Rd., Jullundur 144001.

Factories Association, Railway Rd., Batala143505.

Foundry Association of Punjab, Tanda Rd., Jullundur City 144001.

Foundry & Engineering Association, Ludhiana, G. T. Rd., Millerganj, Ludhiana 141003.

Handloom Associations, Federation of, Katra Ahluwalia, Amritsar 143001.

Handloom Shoddy Weavers & Processors Association, 1449/11-53, Kesari Bagh, Amritsar 143001.

Hosiery Industry Federation of India, Sat Sang Ghar Rd., Civil Lines, Ludhiana 141003.

Hosiery Machine Manufacturers' Association, 461/62, Industrial Area B, Miller Ganj, Ludhiana 141003.

Hosiery Manufacturers' Association, Thapar Bldg., Bazar Kharadian, Ludhiana 141003.

Hosiery Manufacturers Export Organisation, Mai Harkishan Kaur Sarai, Civil Lines, Ludhiana 141003.

Hosiery Manufacturers' Assocn., Home, Chawal Bazar, Ludhiana 141003.

Industrial & Commercial Employers, Chamber of, Civil Lines, Ludhiana 141003.

Industrialists Association, Rajpura, Industrial Area, Rajpura.

Industries Association, Jullundur Dist., Industrial Area, Jullundur 144001.

Industries Association, Kapurthala, Factory Area, Kapurthala 144601.

Industries & Commerce Association, Punjab, 32, Krishna Mkt., Amritsar 143001.

Industry and Commerce, Punjab Federation of, Inside Hall Gate, Amritsar 143001.

Machine Tools Makers Guild, Ludhiana, 510, Deep Rd., Ind. Area B, Ludhiana 141003.

Motor Parts Traders Association, Punjab, Nehru Garden Rd., Jullundur 144001.

Paper Merchants' Association, Punjab, Guru Bazar, Amritsar 143001.

Radio Trade Federation, Punjab, Railway Rd., Jullundur 144001.

Sewing Machine Dealers' Association, Lakhar Bazar, Ludhiana 141003.

Sewing Machine Industries Association, Punjab, C/o Gobind Ram & Sons, 502, Industrial Area B, Ludhiana 141003.

Steel Re-rolling Mills Association, Tanda Rd., Jullundur City 144001.

Shoddy Weavers & Processors Association, 2576/111, Bazar Bikanerian, Amritsar 143001.

Textile Manufacturers' Association, 4, Diwan C. Mehra Rd., Amritsar 143001.

Warp Knitting Industry Association, Punjab, 11, The Mall, Amritsar 143001.

Water Fitting Manufacturers' Association, All India Non-Ferrous, Tanda Rd., Jullundur City 144001.

Woollen Manufacturers Association Ltd., Amritsar Small Scale, Shastri Mkt., Bazar Sabunia, Amritsar 143001.

Yarn Merchants Association, Amritsar, Chowk Katra Ahluwalia, Amritsar 143001.

CULTURAL, SOCIAL AND PROFESSIONAL

Motion Picture Association, East Punjab, 47, Pratap Rd., Jullundur 144001.

Productivity Council, Amritsar, 248, Queen's Rd., Amritsar 143001.

Productivity Council, Batala, Industrial Estate, Batala 143505.

Productivity Council, Jullundur, Tanda Rd., Jullundur City 144001.

Productivity Council, Ludhiana, Industrial Estate, Ludhiana 141003.

Sahitya Akademi, Punjabi, Panjabi Bhavan, Ludhiana 141003.

Shiromani Gurudwara Parbandak Committee, Teja Singh Samudri Hall, Amritsar 143001.

Surgeons of India, Association of, C/o Dr. B. C. Bapna, Deptt. of Urology, Post Graduate Instt. for Medical Research & Edn., Chandigarh 160017.

EDUCATIONAL AND RESEARCH

Engineering, National Institute of, Hoshiarpur 146001.

Sports, Netaji Subhas National Institute of, Motibagh, Patiala 147001. *Dir. :* R. L. Anand.

Vedic Research Institute, Vishveshvaranand, Sadhu Ashram, Hoshiarpur 146001.

RAJASTHAN

COMMERCIAL

Automobile Dealers Association, Rajasthan, C/o Kachawa Bros., National Motor Bldgs., Mirza Ismail Rd., Jaipur 302001.

Bullion Association Ltd., Johari Bazar, Jaipur 302003.

Chemists Assocn., Jodhpur, Sojati Gate, Jodhpur 342001.

Cycle Manufacturers' Association, Rajasthan, Behind Atish, Gangori Bazar, Jaipur 302001.

Employers Association of Rajasthan, Podarpuri, Jaipur 302006.

Engine Reconditioners Association, Jaipur, C/o Laxmi Motor Co., Mirza Ismail Rd., Jaipur 302001.

Fruit Merchants' Assocn., Jaipur, Johari Bazar, Jaipur 302003.

Ginning & Pressing Factories Association, Ganganagar District, Sri Ganganagar 335001.

Halwai Assocn., Lakhara Bazar, Jodhpur 342001.

Industrial Area Mfrs. Association, 149, Industrial Area, Jhotwara, Jaipur 302006.

Industrial & Mining Association, Pusa Niwas, Bhilwara 311001.

Industries Association, Bikaner District, Binani Bldgs., Alak Sagarwell, Bikaner 334001.

Industries Association, Jodhpur, Industrial Estate, Jodhpur 342001.

Industries Association, Kota, Management House, Jhalawar Rd., Kota 324001.

Industries & Commerce Association, Udaipur, C/o Udaipur Cotton Mills, Udaipur 313001.

Iron Ore Mine Owners & Exporters Association, Rajasthan, Johari Bazar, Jaipur 302003.

Iron & Steel Rerollers' Association, Rajasthan, 49, Maharani Gayatri Devi Market, Jaipur 302002.

Jewellers' Association, Johari Bazar, Jaipur 302003.

Kirana Vyapari Sangh, Jodhpur, Tambaku Bazar, Jodhpur 342001.

Lime & Flooring Stone Merchants Association, Kota, Ramganjmandi.

Marble Industries Association, Makrana, Makrana.

Mine Owners Association, Rajasthan, C/o Damodardas Khandelwal, Johari Bazar, Jaipur 302003.

Motor Merchant Assocn., Jodhpur, Sojati Gate, Jodhpur 342001.

Paper Merchants Association, Jaipur, Sharda Bhawan, S. M. S. Highway, Jaipur 302003.

Plastic Industries Association, Nimaj House, Jodhpur 342001.

Roller Flour Millers' Association, Rajasthan, 46, Industrial Area, Jhotwara, Jaipur 302006.

Salt Distributors, Chamber of Genuine, Dhan Mandi, Sambhar Lake 303604.

Sarrafa Sangh, Rajasthan, Sarrafa Bazar, Jaipur 302003.

Small Industries Association, Jaipur City, 25-A, Atish Market, Jaipur 302002.

Small Industries and Handicrafts Association, Ajmer District, Kaxhari Rd., Ajmer 305001.

Small Industries of Rajasthan, Federation of Associations of, Rajasthan Chamber Bhawan, M.I. Rd., Jaipur 302003.

Steel, Cement & Hardware Vyapari Sangh, Jodhpur, Goal Bldg., Sardarpura, Jodhpur 342001.

Tea Merchants Assocn., Jodhpur, Katla Bazar, Jodhpur 342001.

Textile Dealers' Association, Jaipur, Purohitji ka Katra, Jaipur 302003.

Textile Mills Association, Rajasthan, Durlabh Bhawan, Mirza Ismail Rd., Jaipur 302001.

Timber Merchant Assocn., Jodhpur, Pokaran House, 342001.

Transport Operators' Association, Jaipur, C/o New Sethi Transport Co., Moti Doongri Rd., Jaipur 302004.

Tyre Dealers' Association, Jaipur, C/o Laxmi Motor Co., Mirza Ismail Rd., Jaipur 302001.

Vastra Vyapar Sangh, Jodhpur, Katla Bazar, Jodhpur 342001.

Vyapar Mandal, Chandpole Bazar, Jaipur 302001.

Vyapar Mandal, Bikaner, K.E.M. Rd., Bikaner 334001.

Wholesale General Merchants Assocn, Jodhpur, Ghas Mandi, Jodhpur 342001.

Wool Trade Federation, All India, Beawar 305901.

Wool Traders Association, Bikaner, Daga Chowk, Bikaner 334001.

Yarn Merchants Association, Jaipur, D-23, Saraswathi Marg, Beni Park, Jaipur 302001.

CULTURAL, SOCIAL AND PROFESSIONAL

Junior Chamber, Jaipur, 372, Gopalji-ka-Rasta, Jaipur 302003.

Lalit Kala Akademi, Rajasthan, 260-D, Bani Park, Jaipur 302001.

Productivity Council, Rajasthan State, C-22, Laxmi Niwas, Bhagwandas Rd., Jaipur 302001.

Sangeet Natak Academy, Rajasthan, Paota, A-1 Rd., Jodhpur 342001.

EDUCATIONAL AND RESEARCH

Homoeopathy Association, Rajasthan, New Colony, Jaipur 302001.

Sciences, Rajasthan Academy of, Birla Coll., Pilani.

Sheep & Wool Research Institute, Central, Avika Nagar (Jaipur Dist.).

Soil Conservation Research, Admn. & Trg. Centre, Kota 324002.

Vidyapith, Banasthali, P.O. Banasthali Vidyapith. All India residential insttn. imparting all-round edn. to girls from nursery to post-graduate and research stage with faculties of Arts, Science & Edn.

Vidyapith, Saraswati, Tipta, Kota 324001.

Zoological Society, Deptt. of Zoology, Birla Instt. of Technology & Science, Pilani.

TAMIL NADU

COMMERCIAL

Aerated Water Requisites Merchants' Association, Madras, No. 296, Wall Tax Rd., Madras 600003.

Aluminium Merchants' and Manufacturers' Association, Madras, 10/11, Peddu Naicken St., Madras 600003.

Aluminium Urpathyalargal & Vyaparigal Sangam, 6, Ramnad Rd., Madurai 625009.

Arecanut Merchants Assocn., Tiruchy, D-10 & D-11, Gandhi Mkt., Tiruchirapalli 620008.

Art Silk Handloom Cloth Mfrs. & Exporters' Assocn., Komarapalayam (Salem Dist.).

Art Silk Yarn Producers' Assocn., Madurai Twisted, 67, Ramnad Rd., Madurai 625009.

Automobile Association of Southern India, 38-A, Mount Rd., Madras 600006.

Bakery Owners' Association, Madras, 86, N. S. Mudali St., Madras 600004.

Booksellers' and Publishers' Association of South India, C/o Higginbothams Pvt. Ltd., 165, Mount Rd., Madras 600002.

Brick and Tile Manufacturers' Association, 9, Jayammal St., Shenoy Nagar, Madras 600030.

Builders' Association of India (S. Centre), 3/3A, College Rd., Madras 600006.

Butter & Ghee Merchants' Assocn., Coimbatore, 268, N. H. Rd., Coimbatore 641001.

Butter and Ghee Merchants' Association (Regd.), Madras, 137, Audiappa Naick St., Madras 600001.

Carbon-dioxide Manufacturers' Association of S. India, Dare House, North Beach, Madras 600001.

Cardamom Traders Chamber, Bodinayakanur, Madurai Dist.

Catering Establishments' Assocn., Pollachi, Bazar St., Pollachi 642001.

Cement Dealers' Assocn., Madurai Ramnad Dist., 131, West Masi St., Madurai 625001.

Cement & Hardware Merchants Association, Goods Shed Rd., Tiruchirapalli 620001.

Cement Service Bureau, 'The Grove', Alwarpet, Madras 600018.

Cement Manufacturers' Association, 72, East Veli St., Madurai 625001.

Chemical Manufacturers' Assocn., 72, East Veli St., Madurai 625001.

Chemists & Druggists' Assocn., Coimbatore Dist., C/o Krishnaswamy & Co., Dewan Bahadur Rd., Coimbatore 641002.

Chemists & Druggists' Association, East Ramnad, 8-9, Thiagigal Rd., Devakottai.

Chemists & Druggists Federation, All India; Chemists & Druggists' Assocn., Tamil Nadu, 1, Memorial Hall St., Madras 600003.

Chillies Merchants' Association, Madras, 18, Chinnathambimudali St., Madras 600001.

Cloth Merchants Assocn., Coimbatore, 41, Tiruvenkataswamy Rd. (West), R. S. Puram, Coimbatore 641002.

Cloth Merchants, Coimbatore Dist. Handloom, 71, Sukrawarpeth, Coimbatore 641001.

Coffee Merchants' Association, All India, 55, Rangai Gowder St., Coimbatore 641001.

Coffee Powder Mfrs.' Assocn., Madurai Ramanathapuram Dist., 132, Swami Sannathi, Madurai 625001.

Corrugated Box Mfrs. Association, South India, 84, Sydenham's Rd., Madras 600007.

Cotton Association, Coimbatore, 6/83, Avanashi Rd., Coimbatore 641018.

Cotton Ginners' Assocn., Coimbatore Dist., 6/83, Avanashi Rd., Coimbatore 641018.

Cotton Merchants' Association, Tirupur, Tirupur 638601.

Cotton Seed Merchants' Association, Tamil Nadu, 95, Thadicombu Rd., Dindigul 624001.

Cotton Waste Merchants & Exporters Assocn., Southern India, 26, Syrian Church Rd., Coimbatore 641001.

Cycle Dealers' Association, Madras, 7-B, Broadway, Madras 600001.

Dyes and Chemicals Merchants' Association, Madras, 209, Govindappa Naick St., Madras 600001.

Dyes & Chemical Merchants' Assocn., Madurai, Puliadi Ramasamy Iyer Lane, Manjanakara St., Madurai 625001.

Electric Trades' Association, 221, Avanashi Rd., Coimbatore 641018.

Electric Trades' Association, Madras, 26, Tholasingham St., Madras 600001.

Electrical & Machinery Dealers' Association, Madurai, 18-B/1, New Ramnad Rd., Madurai 625009.

Employers' Combine, All India, 367, East Masi St., Madurai 625001.

Employers' Federation of Southern India, Dare House Annexe, Moore St., Madras 1. *Chmn.:* C. G. Ramanathan; *V. Chmn.:* S. K. Parthasarathy; *Secy.:* C. S. Krishnaswami.

Engineering Industry, Association of Indian, Dare House Annexe, Moore St., Madras 600001.

Engineering Manufacturers' Association, Southern India, Kalaikathir Bldg., Avanashi Rd., Coimbatore 641018.

Exporters and Importers Association, Nagai, 6, Second Line Beach, Nagapattinam 611001.

Fireworks Manufacturers' Association, Small Scale Cottage, Door No. 7-3/5, Seeni Moopnagar St., Sivakasi 626163.

Foodgrains Merchants Association, Madras Provincial, 40, Anderson St., Madras 600001.

Foodgrains Merchants' Association Ltd., Tamil Nadu, 14, Swami Sannadhi Lane, Madurai 625001.

Gem (Synthetic) Cutting Dealers Assocn., Tiruchy Dist., Big Bazar, Tiruchirapalli 620008.

Glass Manufacturers' Association, South India, C/o S. India Glass & Enamel Works Ltd., 172, Cherry Rd., Salem 636007.

Gunny Merchants Association, 9-10, East Veli St., Madurai 625001.

Gunny Merchants' Association, Madras, 35-A, Audiappa Naicker St., Madras 600001.

Handicrafts Co-operative Marketing Society Ltd., Madras State, 329, Thambu Chetty St., Madras 600001.

Handkerchiefs Exporters Assocn. (Regd.), Real Madras, 7, Md. Abdullah Sahib St., Chepauk, Madras 600005.

Handloom Cloth Manufacturers' Association, Salem Gugai, 407, Trichy Main Rd., Salem 636006.

Handloom Cloth Producers' Assocn. Ltd., Madurai 44, Lakshmipuram 2nd St., Madurai 625001.

Handloom Fabrics Marketing Co-operative Society Ltd., All India, 16, Sunkurama Chetty St., Madras 600001.

Handloom Industry and Trade Association, Tamil Nadu, 72, Thambu Chetty St., Madras 600001.

Handloom Manufacturers' Association, Tiruchy, Panchavarnaswamy Koil St., Woraiyur, Tiruchirapalli 620003.

Handloom Merchants' Assocn., Sree Madura Wholesale, 81, Manickakrishnasamy Lane, Mahal 3rd St., Madurai 625001.

Handloom Textile Processors' Assocn., 218, Netaji Rd., Erode 638001.

Handloom Towels and Bedsheets Manufacturers' Association, Tamil Nadu Federation of, Erode 638001.

Handloom Weavers Association, Coimbatore Devanga, 58, Rangai Gowder St., Coimbatore 641001.

Handloom Weavers' Co-operative Society Ltd., Tamil Nadu, 34/1A, Pantheon Rd., Madras 600008.

Hardware Merchants Assocn., Coimbatore Dist., 112-D, Thiruvenkataswamy Rd., R. S. Puram, Coimbatore 641002.

Hardware (Sundry) and Paint Merchants' Association, Madras, 45, Venkatachala Mudali St., Madras 600003.

Hosiery Manufacturers' Association, Tirupur, 132, Kamraj Rd., Tirupur 638604.

Hotels Association, Madras, 289, N. S. C. Bose Rd., Madras 600001.

Hotels and Restaurants Association, South India, Spencer's Bldg., 153, Mount Rd., Madras 600002.

Industrial Development Association, Tuticorin, 84-B, South Raja St., Tuticorin 628001.

Industrial Estate Mfrs. Association, Ambattur, Ind. Estate, Ambattur, Madras 600058.

Industrial Estate Manufacturers' Association, Ind. Estate, Guindy, Madras 600032.

Industrial Estate Mfrs.' Association, Madurai, C-7, Industrial Estate, Madurai 625007.

Industries Association, Madras, 114, Mowbray's Rd., Madras 600018.

Iron and Hardware Merchants' Association, South India, 6, Armenian St., Madras 600001.

Iron & Steel Fabricators' Assocn., Madurai Dist., 66-A, South Avanimoola St., Madurai 625001.

Jaggery & Jaggery Powder Merchants Assocn., Erode, 51, R. K. V. Rd., Erode 638001.

Jewellers' and Diamond Merchants' Association, Madras, 11 & 12, Car St., Madras 600001.

Jewellery & Fine Arts Association, Coimbatore, 252, Big Bazar St., Coimbatore 641001.

Kaithari Javuli Urpathiyalar Sangam, Madurainagar, Navabathkana St., Madurai 625001.

Kirana Merchants' Association, Madras, 210, Govind Naicken St., Madras 600001.

Machine Tools Merchants' Association, Tamilnadu, 52, Linghi Chetty St., Madras 600001.

Manufacturers' Association, All India, (Tamil Nadu Board), 150-B, Mount Rd., Madras 600020.

Marketing Federation Ltd., Tamil Nadu Co-operative, 89, Poonamallee High Rd., Madras 600010.

Match Manufacturers' Association, Kalugumalai, 627752. (Tirunelveli Dist.)

Match Manufacturers' Assocn., Sattur Small, 69, Railway Feeder Rd., Sattur 626203 (Ramnad Dist.).

Match Manufacturers' Association, Small Scale, Pettai St., Sivakasi 626163.

Match Mfrs. Association, Tirunelveli Dist. Cottage, Kovilpatti 627701.

Metalware Manufacturers & Merchants Association, Tamil Nadu, 36, Raghunayakulu St., Madras 600003.

Milk Supply Union Ltd., Madras Co-operative, Ayanavaram, Madras 600023.

Millowners' Association, Southern India, Race Course, Coimbatore 641018.

Millowners' Association, Tamilnad, Meenakshi Nilayam, T. P. K. Rd., Madurai 625003.

Motor Parts Dealers' Association, Coimbatore Dist., 160, Dr. Nanjappa Rd., Coimbatore 641018.

Motor Parts Dealers' Association, Madras, 22, General Patters Rd., Madras 600002.

Motor Parts Dealers' Association, Tamil Nadu, Tamil Sangam Rd., Madurai 625001.

Motor Vehicles and Allied Industries Association, 22, Edward Elliot's Rd., Madras 600004.

Oil & Allied Products Co-op. Federation Ltd., Tamil Nadu, Kuralagam, Madras 600001.

Oil Mill Owners United Assocn., Madurai, 16, Workshop Rd., Madurai 625001.

Oil and Seeds Association, Madras, 320/9, Francis Joseph St., Madras 600004.

Oilman Stores & Sundry Merchants' Association, Madras, 6, Bunder St., Madras 600001.

Onion Traders' Association, 2/41, Malayaperumal St., Madras 600001.

Opticians Association, Madras, 24, Broadway, Madras 600001.

Palmgur Co-op. Federation Ltd., Madras State, Kuralagam, Madras 1.

Paper Merchants' Assocn., Coimbatore Dist., C/o Hariharan & Co., 144, Oppanakara St., Coimbatore 641001.

Paper Merchants' Association, Madras, 2, Anderson St., Madras 600001.

Paper Merchants' Association, Tamilnad, 43/44, East Avani Moola St., Madurai 625001.

Pharmaceutical Association, Indian, C/o Orient Pharma Pvt. Ltd., Old Trunk Rd., Madras 600043

Pharmaceutical Trade, Joint Council of Indian, 1, Memorial Hall St., Madras 600003.

Photographic and Allied Trades Association Ltd., South Indian, 1/129, Mount Rd., Madras 600006.

Piecegoods Merchants' Association, Madras, 100, Godown St., Madras 600001.

Piecegoods Merchants Assocn., Tiruchy Dist., P. R. Narayanasamy Iyer & Sons, Big Bazar, Tiruchirapalli 620008.

Planters' Association of Southern India, United, P.O. Box No. 11, "Glenview", Coonoor 643101, Nilgiris.

Plastics Association, South India, 8, 6th St., Lake Area, Madras 600034.

Printers' Assocn., Coimbatore Dist. Master, 129, Union High School Rd., Coimbatore 641001.

Printers' Association, Sivakasi Master, Railway Feeder Rd., Sivakasi 626123.

Printers' Association, Tamilnad, 18, East Hanumantharayan Koil St., Madurai 625001.

Production & Sales Society Ltd., Coimbatore Industrial Weavers Co-operative, 65-A, Alagesan Rd., Coimbatore 641011.

Publishers' Association of South India, 11, Sunkurama Chetty St., Madras 600001.

Pyrotechnists' Association, Indian, Valapalakudai St., Sivakasi 626123.

Radio Dealers' Association, Coimbatore District, C/o Associated Electronics, 59, Oppanakara St., Coimbatore 641001.

Radio Dealers' Association, Philips, C/o Rajeswari Electricals, 10, Pondy Bazar, T. Nagar, Madras 600017.

Radio Dealers' Association, Tiruchy, West Boulevard Rd., Tiruchirappali 620008.

Radio Merchants' Association, All India, 22, General Patters Rd., Madras 600002.

Refrigeration and Air Conditioning Trades Association, 23/24, Second Line Beach, Madras 600001.

Rice Merchants' Association, Coimbatore, Rangai Gowder St., Coimbatore 641001.

Rice Merchants' Assocn., Tiruchy, Gandhi Mkt., Tiruchirapalli 620008.

Rice & Oil Mill Owners' Assocn., Madurai Dist., 167, Madurai Housing Board Colony, Sathamangalam, Madurai 625020.

Road Transport Assocn., Coimbatore, 122-D, Dr. Rajendra Prasad Rd., Tatabad, Coimbatore 641012.

Roller Flour Mills Association Ltd., Southern India, Indian Chambers Bldgs., Esplanade, Madras 600001.

Sago and Starch Merchants' Association, Salem, 24, Ayyasamy Chettiar Rd., Shevapet, Salem 636002.

Salt Manufacturers' and Merchants' Association, 159, Victoria St., Tuticorin 628001.

Salt Producers' Association, Small Scale, Arumuganeri 628202, Tirunelveli Dist.

Salt Producers' & Exporters' Chamber, Tuticorin 628001.

Sanitary Dealers' Association, South Indian, Buharia Bldg., No. 1, Moores Rd., Madras 600006.

Shroffs & Jewellers Association, Tiruchy, Big Bazar, Tiruchirapalli 620008.

Silk Handloom Weavers Co-op. Production & Sale Society Ltd., 168-A, Gandhi Rd., Kancheepuram 631501.

Skin and Hides Merchants' Association, Southern India, 16, Sydenham's Rd., Periamet, Madras 600003.

Small Industries Assocn., Madurai, B-2, Industrial Colony, Madurai 625007.

Small Industries of India, Federation of Associations of, 10, G.S.T. Rd., Madras 600032.

Small Scale Industries Assocn., Coimbatore Dist., 84, Avanashi Rd., Coimbatore 641018.

Small Scale Industries' Association, Kanyakumari, C/o Favourite Food Products, 25/269, Ramavarmapuram, Nagercoil 629001.

Small Scale Industries Association, Tamil Nadu, 10, G. T. S. Rd,. Guindy, Madras 600032.

Snuff & Tobacco Merchants Association, Madras State, 56, Varada Muthiappan St., Madras 600001.

Soap Manufacturers' Assocn., Tamilnad Southern Regional, 38-39, Amman Sannathi St., Madurai 625001.

Steamer Agents' Association, Madras, 1/21, North Beach Rd., Madras 600001.

Steamer Agents' Association, Tuticorin, 90, South Raja St., Tuticorin 628001.

Steel Merchants' Syndicate, 87, East Masi St., Madurai 625001.

Stevedores' Association, Madras, Madras Dock Labour Board Bldg., North Beach Rd., Madras 600001.

Stock Exchange Ltd., Madras, 16/17, Second Line Beach, Madras 600001. *Pres.:* M. S. Sivasubramanian; *Vice-Pres.:* K. Krishnamoorthy; *Exec. Dir.:* E. R. Krishnamurti.

Sugar Factories Ltd., Madras State Federation of Co-operative, 2, Maharaja Suryarao Rd., Madras 600018.

Sugar Mills Association, South Indian, Indian Chamber Bldgs., Esplanade, Madras 600001.

Supply & Marketing Society Ltd., Coimbatore Dist. Central Co-operative, Mettupalayam Rd., Coimbatore 641002.

Synthetic Stones Mfrs. & Dealers' Assocn., Southern India, Big Bazar, Tiruchirapalli 620008.

Tanners and Dealers Association, South India, Ranipet. (North Arcot Dist.)

Textile Association (India), S. I. Branch, C/o Coimbatore Cotton Mills Ltd., Singanallur, Coimbatore 641005.

Textiles Association, Tamil Nadu, 2, First Gandhipuram, Erode 638003.

Textiles Manufacturers' and Exporters' Society, Handloom, Salem Main Rd., Komarapalayam. (Salem Dist.)

Timber, Bamboo & Tile Merchants' Assocn., Coimbatore, 14/69, Jail Rd., Coimbatore 641001.

Timber Merchants Assocn., Madras, 132, Wall Tax Rd., Madras 600001,

Timber Merchants' Association, Madurai, 119, West Perumal Maistry St., Madurai 625001.

Trade Promotion, Sivakasi Chamber of, Railway Feeder Rd., Sivakasi 626123. (Ramnad Dist.)

Trades Association, Madras, Spencer's Bldgs., Mount Rd., Madras 600002.

Tyre Dealers' Association, Madras City, 19A, Woods Rd., Madras 600003.

Varthagar Kazhagam, Tamilnad, 70, Chetty New St., Kumbakonam 612001.

Vellam Sarkarai Vyabarigal Assocn., Tiruchy, Mundy, Mailam, Tiruchirapalli 620008.

Vermicelli Manufacturers' Association, Madras City, 7, 2nd St,. Madras 600034,

Vessel Merchants & Mfg. Assocn., Coimbatore, 394, Raja St., Coimbatore 641001.

Vyabarigal Sangam, Pollachi, 108, Gopal Bldgs., Pollachi 642001.

Weaving & Knitting Factory Owners' Association Ltd., Karur, New St., Karur 639001.

Window Glass Merchants' Association, Madras, 92/96, Devaraja Mudali St., Madras 600003.

Yarn Merchants' Association Ltd., Madurai, 134' South Masi St., Madurai 625001.

Yarn Trade Federation, South India, 38, Mint St., Madras 600003.

CULTURAL, SOCIAL AND PROFESSIONAL

Agri-Horticultural Society of Madras, 18, Cathedral Rd., Madras 600006.

Agro Engineering & Service Co-op. Federation Ltd., Tamil Nadu, 46, Theagaraya Rd., T. Nagar, Madras 600017.

Anglo-Indian Association, All India, 15. Latangs Rd., Madras 600007,

Animal Welfare Board, 1, First Main Rd., Gandhinagar, Madras 600020.

Arts Academy, Santi, 1, Nanarao Naidu St., Madras 600017.

Athletic Association Ltd., South India, Moore Pavilion, Madras 600003.

Automobile Engineers (India), Institution of, 85, Mount Rd., Madras 600018.

Badminton Association, Madras State, Nehru Stadium, Madras 600003.

Bar Association, High Court, Madras 600001.

Bharat Scouts and Guides, "Wenlock Park", South Beach Rd., Triplicane, Madras 600005.

Billiards Association, Tamil Nadu, Corpn. Indoor Stadium, Lake Area, Madras 600034.

Botanical Society, Indian, Univ. Botany Laboratory, Madras 600005.

Business & Industrial Management Consultancy Service, 1-A. Kailasapuram, Tirunelveli 1.

Carrom Federation, All India, (Also Carrom Assn., T. Nadu), Room 9, Nehru Stadium, P. T. Madras 600003.

Catholic Centre, Armenian St., Madras 600001.

Chartered Accountants of India, Institute of, Sri Ram Bldg., 138, Jail Rd., Coimbatore 641018.

Chartered Accountants of India, Institute of, 231, Nungambakkam High Rd., Madras 600034.

Child Education, Indian Council for, 1, Prakasa Mudaliar Rd., Madras 600017.

Child Welfare, Madras City Council for, 81, Suryanarayana Chetty St., Royapuram, Madras 600013.

Children, Madras Society for the Protection of 465, T.H. Rd., Washermanpet, Madras 600021.

Christian Literature Society, Park Town, Madras 600003.

Cine Technicians' Association of South India, 34, Usman Rd., Madras 600017.

Company Secretaries of India, Institute of, (Southern India Regnl. Council), C/o R. V. Nagarajan, Simpson & Co. Ltd., 202/203, Mount Rd., Madras 600002

Consumers' Association, Madras Provincial, 83, Big St., Madras 600005.

Consumers' Federation Ltd., National Co-operative (Madras Branch), 13/16, Thambu Chetty St., Madras 600001.

Cricket Association, Tamil Nadu, Wallajah Rd., Madras 600005.

Cruelty to Animals, Society for the Prevention of, Vepery High Rd., Vepery, Madras 600007.

Cultural Relations, Indian Council for, 3/C-1, Eldams Rd., Madras 600018.

Deaf, Madras Association of the, School for the Deafs, P. O. Cathedral, Madras 600006.

Dental Council, Madras, Block Central Office Bldgs., Madras 600006.

Divine Science Trust, No. 26, K. K. Rd., Ambattur, Madras 600053.

Dyers' Sangam, Madurai Pioneer, South Pandian Agil Lane, South Masi St., Madurai 625001.

Engineers (India), Institution of, 1, Adam's Rd., Chepauk, Madras 600005.

Ex-Servicemen Industrial Co-op. Society Ltd., Anna Electromech, 34-C, Katpadi Rd., Vellore 632001.

Film Directors Association, South India, 11A, Gopalakrishna Iyer Rd., Madras 600017.

Film Producers Guild of South India, 41. Bazlullah Rd., Madras 600017.

Financiers' Association, Madurai Ramanathapuram, Dist., West Masi St., Madurai 625001.

Financiers & Pawn Brokers' Association, Madras, 217, Govindappa Naicken St., Madras 600001.

Fishermen's Co-op. Federation Ltd., Madras, 3-A, Veerasami Mudali St., Madras 600013.

Football Association, Tamilnadu, Nehru Stadium, Madras 600003.

Free Enterprise, Forum of, 35, Mount Rd., Madras 600002.

Friend-in-Need Society, Finsbree Garden, 19/20, Poonamallee High Rd., Madras 600003.

Geethalaya, 1, First Cenotaph St., Madras 600018.

Geographical Society, Indian, Univ. Centenary Bldgs., Chepauk, Madras 600005.

Geography Teachers of India, Association of, 21B/1, Dr. Vasudevan Rd., Madras 600010.

Gokulam Method Village Welfare Association, 11-B, Eldams Rd., Teynampet, Madras 600018.

Handicapped, State Board for the, Directorate of Emp. & Trg., Chepauk, Madras 600005.

Hockey Federation, Indian, Corporation Stadium, Madras 600003.

Homoeopathic Medical Association, All India, 10, Shafee Mohamed Rd., Madras 600006.

Homoeopathy Council, Tamil Nadu, 36, Parthasarathy Naidu St., Madras 600005.

Housewives Association (S. Zone), Indian, 114. Mowbray's Rd., Madras 600018.

Indo-Canada Association, TNK House, 11-A/3 Mount Rd., Madras 600002.

Indo-Nippon Cultural Exchange Society, 13, 1st Main Rd., CIT Colony, Madras 600004.

Industrial Society, Christian Service To, 6/17A, Harrington Rd., Madras 600031.

Industrialists' Association, 10, Juttu Easwaran Lane, Mahal Vadampokki St., Madurai 625001.

Insurance Surveyors & Loss Assessors (S. India), Association of, 11/12, 2nd Line Beach, Madras 600001.

International Art Centre, Kalakshetra, Tiruvanniyur, Madras 600041. Centre for education in classical music, dancing, theatrical art, painting & handicrafts. *Pres.:* Srimati Rukmini Devi.

Journalists, Madras Union of, 15. Ritchie St., Madras 600002.

Junior Chamber, Coimbatore, C/o Bazar Opticals, Bazar St., Coimbatore 641001.

Kali Bari, Madras, 19-A, Woods Rd., Madras 600002.

Kerala Association, Madras, 7, Avenue Rd., Madras 600034.

Kerala Samaj, Madras, 483, P. H. Rd., Madras 600034.

Khadi & Village Industries Board, Tamil Nadu, Kuralagam, Madras 600001.

Law Institute (T. Nadu Unit), Indian, 8. High Court Chambers, Madras 600001.

Library Association, Madras, C/o Maraimalai Adigal Library, 105, Linghi Chetty St., Madras 600001.

Lift Irrigation Co-operative Federation, Tamil Nadu, 32, Luz Church Rd., Madras 600004.

Literary Society, Madras, College Rd., Madras 600006.

Lorry Owners' Assocn., Coimbatore, 77, Palghat Rd., Coimbatore 641001.

Lorry Owners' Association, Madras State, 64, Linghi Chetty St., Madras 600001.

Management Association, Madras, 51. Sir Thyagaraya Rd., Madras 600017.

Management Assocn. of Southern India, 395, North Masi St., Madurai 625001.

Management Counsel (Madras), Modern, 2, Nagaratnam Colony, Mylapore, Madras 600004.

Marine Biological Association of India, Mandapam Camp (Editorial Office: 10, South St., Madras 600028).

Mathematical Society, Indian, Deptt. of Mathematics, Madurai Univ., Madurai 625002.

Medical Council, Madras, Block 1, Dte. of Medical Services Office Compound, Madras 600016.

Metropolitan Development Authority, 464, P. H. Rd., Madras 600010.

Missionary Society of India, National, 102, Peters Rd., Madras 600014.

Motion Picture Studios Association, South India, 14, Ratna Chetty St., Madras 600014.

Music Academy, 115-E, Mowbray's Rd., Madras 600014.

Mylapore Academy, 19, Nallappan St., Mylapore, Madras 600004.

National Indian Association, 7-F, C-in-C Rd., Madras 600008.

Om Vighneswara Cultural Academy, 21, Dr. Rangachari Rd., Mylapore, Madras 600004.

Painters, South Indian Society of, No. 13, 3rd Trust Cross St., Madras 600028.

Pawn Brokers' & Money Lenders' Assocn., Coimbatore Dist., 9/59-A, Satyamurthy Rd., Coimbatore 641009.

Pawn Brokers' & Money Lenders' Assocn., Tiruchy Dist., Single Mall St., Tiruchirapalli 620002.

Philatelic Academy, Rangpar, 27, Dewan Rama Iyengar Rd., Purasawalkam, Madras 600084.

Productivity Council, Coimbatore, 6/48, Avanashi Rd., Coimbatore 641037.

Productivity Council, Madras, 51, Sir Thyagaraya Rd., Madras 600017.

Productivity Council, Madurai, 180, West Masi St., Madurai 625001.

Productivity Council, Salem, Fairlands, Salem 636004.

Productivity Council, Tiruchirapalli, Vincent's Bldgs., Cantt., Tiruchirapalli 620001.

Productivity Council, Tirunelveli, P.O. Sankarnagar. (Tirunelveli Dist.).

Purandharadas Aradhana Mahotsava Sabha, Sri, Srirangam, Tiruchirapalli 620006.

Ramakrishna Math, Sri, 11, Sri Ramakrishna Math Rd., Mylapore, Madras 600004.

Rasika Ranjani Sabha, Sundareswar St., Mylapore, Madras 600004.

Red Cross Society, Indian, T. Nadu Branch, Red Cross Bldg., Montieth Rd., Egmore, Madras 600008.

Rural Health and Family Planning, Gandhigram Institute of, P. O. Gandhigram (Madurai Dist.).

Sai Samaj, All India, 37, Alamelumangalpuram, Madras 600004.

Sangita Nataka Sangam, Madras State, 'Brodie Castle,' Greenways Rd., Madras 600028.

Sanskrit Academy, Sanskrit College Bldgs., Mylapore, Madras 600004.

Sarvodaya Sangh, Tamilnad, 39, Linghi Chetty St., Madras 600001.

Servants of India Society, 8, Westcott Rd., Royapettah, Madras 600014.

Seva Sadan, Madras, No. 5, Harrington Rd., Chetput, Madras 600031.

Slum Clearance Board, Tamil Nadu, 36, Mount Rd., Madras 600035.

Social Welfare, Indian Council of, ' Philory ', Nungambakkam High Road, Madras 600034.

Social Work, Madras School of, Casamajor Rd., Egmore, Madras 600008.

Sports Council, Coimbatore Dist., Opp, Officers' Club, VOC Park, Coimbatore 641018.

Sports Council, Tamil Nadu State, Nungambakkam Recreation Centre, Madras 600034.

Sunday School Union, India, Coonoor 643103.

Surgeons of India, Association of, Adams Rd., Madras 600005.

Tamil Culture, Academy of, Madras 600007.

Tamil Sangam, Madurai, Tamil Sangam Rd., Madurai 625001.

Textile Mills Creditors' Assocn., Tamil Nadu, 13/151, Dewan Bahadur Rd., Coimbatore 641002.

Village Uplift Federation, Tamil Nadu, 6, New St., Kottur, Madras 600025.

Vivaha Nala Sangam, 2713, North Raja St., Pudukkottai 622001.

Volleyball Association, Tamilnadu State, Nehru Stadium, Madras 600003.

Weight Lifting Association, Madras State, 6, Ayyavu Naidu East St., Madras 600030.

Welfare Association, West Madras, 25, Club Rd., Shenoy Nagar, Madras 600030.

Writers' Forum (Regd.), Young, 10, Bharathi 1st St., Madras 600011.

EDUCATIONAL AND RESEARCH

Adult Education, Regional Council for, 274, Linghi Chetty St., Madras 600001.

Anatomy, Institute of, Madras Medical College, Park Town, Madras 600003.

Automobile Engineering and Business Management, Institute of, 85, Mount Rd., Madras 600018.

Automotive Engineers, Institution of, 85, Mount Rd., Madras 600018.

Catering Technology and Applied Nutrition, Institute of, Adyar, Madras 600020.

Development Studies, Madras Institute of, 74, 2nd Main Rd., Gandhinagar, Madras 600020.

Educational Association of Southern India, Muslim, 49, Peters Rd., Royapettah, Madras 600014.

Electrochemical Sciences & Technology, Society for the Advancement of, Central Electrochemical Research Instt., Cecrinagar, Karaikudi 623006.

Engineering Technology, Indian Institute of, 70/4L, Arcot Rd., Madras 600024.

Engineering Training Centre, Hindustan, 40, North Parade Rd., Madras 600016.

Financial Management and Research, Institute for, 3, Kothari Rd., Nungambakkam, Madras 600034.

Fisheries Co-operatives, Central Institute of, 81, S. N. Chetty St., Royapuram, Madras 600013.

Fisheries Research Institute, Central Inland, 19-A, Patel Rd., Madras 600011.

Footwear Training Centre, Central, A1 to A4, Ind. Estate, Guindy, Madras 600032.

Forensic Science & Chemical Laboratory, Tamil Nadu, South Beach Rd., Madras 600004.

General Practice, Madras Institute of, V. H. S. Medical Centre, Madras 600020.

Historical Research, Tamil Nadu Council of, Tamil Nadu Archives, Egmore, Madras 600008.

Home Science College, Sri Avinasilingam, Coimbatore 641011.

Homoeopaths, Indian Institute of, 30, Bakthapuri St., Kumbakonam 612001 ; 78, West Tower St., Madurai 625001 ; 96-98, Raja St., Coimbatore 641001 ; 3/186, 2nd Flr., Mount Rd., Madras 600002.

Horticultural Association, South Indian, Lawley Rd., Coimbatore 641003.

Human Relationship, Gandhi Lincoln Institute of, Gandhigram (Madurai Dist.).

Industrial & Fiscal Economics, Indian Society of, Univ. of Madras, Madras 600005.

Industrial & Scientific Research Association, 96, Mount Rd., Madras 600018.

Instructors, Central Training Institute of, Industrial Estate, Guindy, Madras 600032.

Labour Institute, Regional, Guindy Rd., Madras 600020.

Leather Technology, Institute of, Madras 600020.

Leprosy Teaching and Research Institute, Central, Chingleput 603001.

Library and Research Centre, Adyar, Adyar, Madras 600020.

Management, Institute of, Shanmugha Mandram, Race Course. Coimbatore 641018.

Marine Biology Centre for Advance Studies, Porto Novo (S. Arcot Dist.).

Mathematical Sciences, Institute of, Central Polytechnic Bldgs., Madras 600020.

Packaging, Indian Institute of, 51, Sir Thyagaraya Rd., Madras 600017. (H. O. Bombay.)

Pasteur Institute of Southern India, Coonoor 643103.

Personnel Management, Indian Institute of, C/o L. G. Balakrishna & Bros., Trichy Rd., Coimbatore 641018.

Plastics, Engineering and Tools (Min. of Petroleum & Chemicals), Central Institute of, Guindy, Madras 600032. Trg. in mould making, mould design, mould polishing & plastics processing. Short courses in advance mould design, mould setting and hand operated injection, compression moulding are also offered on the basis of demand from industries.

Printing & Graphic Arts, Indian Academy of, 'Sudha Sindhu', 8, Second St., Subramania Nagar, Madras 600024.

P. S. G. & Sons Charity Industrial Institute, Peelamedu Post, Coimbatore 641004.

Ramakrishna Mission Vidyalaya, Sri, Sri Ramakrishna Mission Vidyalaya P.O., (Coimbatore Dist.)

Regional Testing Laboratory, Ind. Estate, K. Pudur, Madurai 625007.

Soil Conservation Research Demonstration and Training Centre, Patna House, Ootacamund 643001.

Statistical Institute, Indian, 63, Lokamanya St., Coimbatore 641002.

Statistical Institute, Indian, 31, N. H. Rd., Madras 600034.

Tamil Development and Research Council, Directorate of Tamil Devpt., Kuralagam, 2nd Flr., Madras 600001.

Tamil Research, International Institute of, 14/1, Off Sterling Rd., Madras 600034.

Tamil Studies, International Institute of, Central Polytechnic, Madras 600020.

Technical Education, Indian Society for, IIT Campus, Madras 600036.

Technical Teachers' Trg. Institute, S. Region, Adyar, Madras 600020.

Technical Training Foundation, Nettur, Govt. Industrial Colony, Katpadi.

Technology, Coimbatore Institute of, P.O. Aerodrome, Coimbatore 641014.

Technology, Indian Institute of, Madras 600036.

Technology, Madras Institute of, P.O. Chromepet, Chingleput Dist.

Technology, Seshasayee Institute of, Ariyamangalam, Tiruchirapalli 620010.

Textile Research Association, South India, Coimbatore 641014.

Tuberculosis Institute, Government, Spur Tank Rd., Chetput, Madras 600031.

Venereology, Institute of, Govt. General Hospital, Madras 600003.

Veterinary Association, Indian, 10, Avenue Rd., Madras 600034.

Welding, Indian Institute of, Tiruchirapalli 620014.

Workers' Education Centre, Soundra Mahal D. B. Rd., R. S. Puram, Coimbatore 641002.

UTTAR PRADESH

COMMERCIAL

Auto Dealers Association, Varanasi, Thaper House, Varanasi Cantt.

Automobile Association, U.P., 32-A, M. G. Mrg., Allahabad 211001.

Automobile Dealers Association, C/o Jullundur Auto Sales Corpn. P. Ltd., The Mall, Kanpur 208004.

Bakers' Assocn., Doon, Rajpur Rd., Dehra Dun 248001.

Barbed Wire Manufacturers' Association, U.P., 58/4, Birhana Rd., Kanpur 208001.

Biscuit Manufacturers' Association, U.P., 84/67, G.T. Rd., Kanpur 208001.

Booksellers' Assocn., Rajpur Rd., Dehra Dun 248001.

Carpet Manufacturers' Association, All India, Post Box No. 63, Bhadohi.

Carpet Mfrs. Co-op. Association Ltd., Quality Marked Woollen, Gopal Das Rd., Mirzapur 231001.

Chemists & Druggists Assocn., Rajpur Rd., Dehra Dun 248001.

Cloth Merchants' Assocn., Agra Retail, Seo-ka-Bazar, Agra 282001.

Concrete Pipe Mfrs.' Assocn., U.P., 239-A, National Highway, New Agra, Agra 282001.

Crockery Dealers' Assocn., Paltan Bazar, Dehra Dun 248001.

Cycle Veopar Mandal, Gandhi Rd., Dehra Dun 248001.

Dairy Federation Ltd., Pradesh Co-op., 29, Park Rd., Lucknow 226001.

Dhal Millers Association, All India, Belanganj, Agra 282004.

Diesel Engine Mfrs.' Assocn., U.P., 88, North Vijay Nagar Colony, Agra 282001.

Employers' Association of Northern India, 14-77, Civil Lines, Kanpur 208001.

Engineering Association of Northern India, 5 Ind. Estate, Kalpi Rd., Kanpur 208012.

Essential Oil Association of India, H. B. Technological Instt., Kanpur 208001.

Factory Owners' Association, 110, Industrial Estate, Agra 282001.

Gur and Khandsari Association, U.P., Alamgiriganj, Bareilly 243001.

Gur, Khandsari & Grain Merchants Association, 71-B, New Mandi, Muzaffarnagar 251001.

Halwai Assocn., New Mkt., Dehra Dun 248001.

Handicraft Exporters' Assocn., Farrukhabad, 295, Lohai Rd., Farrukhabad.

Hardware Assocn., Raja Rd., Dehra Dun 248001.

Hide Merchants' Association, Farrashkhana, Kanpur 208001.

Industrial Estate Association, Dist., 12-A Industrial Estate, Muzaffarnagar 251001.

Industrial Estate Manufacturers' Association, U.P., 5, Ind. Estate, Kanpur 208001.

Iron Founders' Assocn., Agra, 88, North Vijay Nagar Colony, Agra 282004.

Kirana, Colour & Chemical Merchants' Assocn., Agra, Rawatpara, Agra 282001.

Lock Manufacturers' and Traders' Association, Aligarh, Aligarh 202001.

Motor Industries Association, U.P., Allied Motors P. Ltd., Hazratganj, Lucknow 226001.

Oil Millers' Association, U. P., 52-10, Collectorganj, Kanpur 208001.

Paint & Spirit Dealers' Assocn., Agra, Rawatpara, Agra 282001.

Photographers' Assocn., Connaught Place, Dehra Dun 248001.

Publishers' Association, Uttar Pradesh, 21, Sheo Charan Lal Rd., Allahabad 211003.

Quality Marked Goods Manufacturers Co-op. Assocn., Ltd., 48, Civil Lines, Roorkee 247667.

Radio Dealers' & Mfrs.' Assocn., Agra, Hing-ki-Mandi, Agra 282001.

Roller Flour Millers' Association, U.P., 47/10, Kabir Marg, Lucknow 226001.

Rubber Goods Mfrs. Association, 101-A, Ajmer Rd., Agra Cantt. 282001.

Scissors Association, C/o Rafi Scissors Works, Sabungran, Pairamal Ka Bazar, Meerut City 250002.

Scientific Dealers' and Makers Association, U.P., C/o Superior Scientific Stores, 109/221, Jawahar Nagar, Kanpur 208012.

Shoe Factories Federation, Agra, Shoe Centre Bldg., Hing-ki-Mandi, Agra 282001.

Shoe Mfrs.' Association, Agra, Jeonimandi, Agra 282001.

Small Industries Association, Court Rd., Saharanpur 247001.

Small Scale Industrial Association (Regd.), Roorkee, C/o B. A. A. & Sons, Hospital Rd., Roorkee 250002.

Small Scale Industries Association, U.P., 106/377, 'P' Rd., Kanpur 208001.

Small-Scale Manufacturers' Association, Loni, Rural Ind. Estate, Loni (Meerut Dist.).

Sugar Exchange Limited, Upper India, 51/58, Collectorganj, Kanpur 208001.

Sugar Mills Association, U.P., 47/2, Kabir Mrg., Lucknow 226001.

Tanners' Federation of India, 14/69, Civil Lines, Kanpur 208001.

Textile Association, India, (U.P. Branch) 14/1, Civil Lines, Kanpur 208001.

Traders & Exporters Assocn., Foreign Tourists', 18, Mall Rd., Agra 282001.

Transporters Assocn., Gandhi Rd., Dehra Dun 248001.

Veopar Samiti, Agra, Barah Bhai-ki-Gali, Agra 282001.

Vanaspathi Assocn., Wholesale, Paltan Bazar, Dehra Dun 248001.

Vyapari Sangh, 65, Subhas Bazar, Meerut 250001.

Watchmakers' Assocn., Paltan Bazar, Dehra Dun 248001.

CULTURAL, SOCIAL AND PROFESSIONAL

Academy of Banaras, American, Rewa Palace, B2/3, Rewa Ghat, Varanasi 221001.

Archaeological Museum, Dampier Park, Mathura 281001.

Ceramic Society, Indian, Banaras Hindu Univ., Varanasi 221005.

Cheshire Homes India, 16, Pritam Rd., Dehra Dun 248001.
Homes: Bangalore, Vadodara, Bombay, Burnpur, Calcutta, Cochin, Lucknow, Nagercoil, Coimbatore, Delhi, Dehra Dun, Jamshedpur, Katpadi, Madras, Mangalore, Pune, Ranchi & Madurai.

Christian Literature Society, North India, 18, Clive Rd., Allahabad 211001.

Crime Prevention Society, All India, Behari Niwas, Kanpur and Balaganj, Lucknow 226001.

Dharma Peetha, Board of Kashi, D35/87, Jangombari, Varanasi 221001.

Divine Life Society, The, P.O. Sivanandanagar, Tehri-Garhwal 249001.

Ethnographic & Folk Culture Society, Anthropology Deptt., Univ. of Lucknow, Lucknow 226001.

Foresters, Society of Indian, P.O. New Forest, Dehra Dun 248001.

Geographical Society of India, National, Banaras Hindu Univ., Varanasi 221005.

Geohydrologists, Indian Association of, Geological Survey of India, 1, Gokhale Mrg., Lucknow 226001.

Graphical Workers, Indian Federation of, Rose Bldg., Subhash Rd., Aligarh 202001.

Junior Chamber, Agra, John's Bungalow, Jeonimandi, Agra 282001.

Kala Bhavan, Bharat, (Museum of Indian Art & Archaeology), Banaras Hindu Univ., Varanasi 221005.

Kashiraj Trust, All India, Fort Ramnagar, Varanasi 221001. *Objects :* Among others, advancement and propagation of the Sanskrit language, Sanskritic learning & Indology.

Kusht Nivaran Sangh, Hind, (U.P. Branch), C/o Director of Medical & Health Services, U.P., Lucknow 226001.

Library Science, Indian Association of Teachers of, Deptt. of Library Science, Banaras Hindu Univ., Varanasi 221005.

Mahila Ashram, (Home for Women in distress run by Municipal Corpn.), Motinagar, Lucknow 226001.

Nature Cure Association, All India, 52, Gwynne Rd., Lucknow 226001.

Nehru International Youth Club, 5A-Khadri Mohalla, Dehra Dun 248001.

Numismatic Society of India, Banaras Hindu Univ., Varanasi 221005.

Oil Technologists' Association of India, Ganesh Flour Mills Co. Ltd., Kalpi Rd., Kanpur 208001.

Pharmaceutical Teachers of India, Association of, New G/2, Jodhpur Colony, Banaras Hindu Univ., Varanasi 221005.

Productivity Council, Agra, P.O. G. G. Industries, Agra 282004.

Productivity Council, Central, U.P., 68, Halwasiya Mkt., Hazratganj, Lucknow 226001.

Productivity Council, Eastern U.P., Shahi Bldg., Cinema Rd., Golgha, Gorakhpur 273001.

Productivity Council, Kanpur, 7/155, Swarup Nagar, Kanpur 208002.

Productivity Council, Rohilkhand, Rampur 244901.

Prouctivity Council, Western U.P., 46/16, Kalyani, Civil Lines, Meerut 250001.

Ramakrishna Mission Sevashram, Vivekananda Puri, Lucknow 226007.

Scouts and Guides, Bharat, 17, Katra Rd., Allahabad 211001.

Seva Samiti, All India, Seva Samiti Bldgs., Seva Samiti Rd., Allahabad 211003.

Sugar Technologists' Association of India, Kalyanpur, Kanpur 208017.

Tuberculosis Association, Uttar Pradesh, 1, A. P. Sen Rd., Lucknow 226001.

United Nations Association, Rose Bldg., Subash Rd., Aligarh 202001.

Zootomical Society of India, Banaras Hindu Univ., Varanasi 221005.

EDUCATIONAL AND RESEARCH

Cottage Industries Development Institute, Tilpurwa, Hussainganj, Lucknow 226001.

Earthquake Technology, Indian Society of, Roorkee 247667.

Educational Associations, All India Federation of, Jha-Seshadri-Khattry Bhawan, Kanpur 208001.

Educational Institutions Establishment, International, 5B, Khadri Mohalla, Dehra Dun 248001.

Food Craft Institute, 18-B, Outram Rd., Lucknow 226001.

Forest Academy, Yoga Vedanta, Divine Life Society, P.O. Sivanandanagar. (Tehri Garhwal Dist.)

Grain Technology Research Institute, Hapur 245101.

Kashi Vidyapith, Varanasi 221001.

Irrigation Research Institute, U.P., Roorkee 247667.

Medical Research, Nature Cure Council of, 52-57, Gwynne Rd., Lucknow 226001.

Metals, Indian Institute of, Roorkee 247667.

Ophthalmology, Institute of, Gandhi Eye Hospital, Aligarh 202001.

Oriental Philosophy, Institute of, Vrindaban, Mathura Dist.

Palaeobotany, Birbal Sahni Institute of, 53, Univ. Rd., Lucknow 226001.

Palaeontological Society of India, 98, Mahatma Gandhi Rd., Lucknow 226001.

Petroleum, Indian Institute of, P. O. 11P, Dehra Dun 248005. *Ag. Dir.:* Dr. I. B. Gulati; *Adm. Officer:* G. Prakash; *Projects Divn.:* 19, Ring Rd., Lajpatnagar IV, New Delhi 110024.

Photo-Interpretation Institute, Indian, 113, Rajpur Rd., Dehra Dun 248001.

Population Centre, A-31, Niralanagar, Lucknow 226007.

Psychological Institute, Allahabad 211001.

Psychological Services & Research, Institute of, 9/63, Aryanagar, Kanpur 208001.

Research Institute, Ganganatha Jha, Motilal Nehru Park, Allahabad 211001.

Sanskrit Vishwa Vidyalaya, Varanaseya, Varanasi 221001. Teaching-cum-affiliating. Has the richest collection of Sanskrit Manuscripts.

Sciences, National Academy of, India, 5, Lajpat Rai Rd., Allahabad 211002. *Pres.:* Dr. S. H. Zaheer; *Gen. Secs.:* Prof. U. S. Srivastava & Prof. R. Kushwaha.

Soil Conservation Research, Adm. & Trg. Centre, 25, Lytton Rd., Dehra Dun 248001 & at 37, Vijay Nagar Colony, Agra 282004.

Soil Science, Sheila Dhar Institute of, Univ. of Allahabad, Allahabad 211001.

Technological Institute, H. B., Company Gardens, Kanpur 208001.

Technology, Indian Institute of, Kanpur 208001.

Textile Institute, Govt. Central, Kanpur 208001.

Vijnana Parishad, Thornhill Rd., Muir College Bldgs., Allahabad 211002.

Viswavidyalaya, Gurukul Kangri, P. O. Gurukul Kangri, (Saharanpur Dist.)

Work Study, Defence Institute of, Landour Cantt., Mussoorie 248179.

Zoology, Academy of, 164, Civil Lines, Agra 282002.

WEST BENGAL

COMMERCIAL

Agricultural Co-op. Marketing Federation Ltd., 20, British Indian St., Calcutta 700001.

Air-conditioning & Refrigeration Assocn., Eastern India, C/o American Refrigerator Co. Ltd., 12-D, Park St., Calcutta 700016.

Aluminium Rollers' and Fabricators' Association, Eastern, 23A, Netaji Subhas Rd., Calcutta 700001.

Animal Feed Mfrs. Assocn. of Eastern India, 8, Old Court House St., Calcutta 700001.

Arts & Crafts Exporters' Assocn., Indian, 9B, Chowringhee Place, Calcutta 700013.

Automobile Association of Eastern India, 13, Ballygunge Circular Rd., Calcutta 700019.

Automotive Manufacturers' Association of India, India Exchange, India Exchange Place, Calcutta 700001.

Bakers' Association, West Bengal, C/o Ferrazzini's Bakery, 47, Beniapukur Rd., Calcutta 700014.

Ball and Roller Bearing Manufacturers' Association of India, 3A, Shakespeare Sarani, Calcutta 700016.

Banks Association, Indian 10, Brabourne Rd., Calcutta 700001.

Battery Manufacturers' Association, Indian, P-11, Mission Row Extn., Calcutta 700001.

Bazar Samity, Mahamaya, Mahamaya Bazar, Durgapur.

Belting Industries Association, Indigenous, P-11, Mission Row Extn., Calcutta 700001.

Bidi & Tobacco Merchants' Association, Calcutta, 1, Rupchand Roy St., Calcutta 700007.

Bucket Manufacturers' Association of India, India Exchange, India Exchange Place, Calcutta 700025.

Builders' Association of India (Eastern Centre), 76, Ashutosh Mukherjee Rd., Calcutta 700025.

Builders' Hardware Industries Association of India, India Exchange, 7th Floor, Calcutta 700001.

Bullion Association, Calcutta, 68, Cotton St., Calcutta 700007.

Byabasaya Samity, Rajakatra, 167, Netaji Subhas Rd., Calcutta 700007.

Cabinet Makers' and Furnishers' Association, Calcutta, 254-K, BB. Ganguly St., Calcutta 700012.

Cable and Conductor Mfrs.' Association of India, 8, Old Court House St., Calcutta 700001.

Calendar Mfg. Association, 8, Ramkumar Rakshit Lane, Calcutta 700007.

Carpet Manufacturers' Association, Indian, 9B, Chowringhee Place, Calcutta 700013.

Cement Dealers' Association, Calcutta, 331, B. B. Chatterjee Rd., Calcutta 700042.

Cement Dealers' Association, Howrah, 47/A, Dr. Abani Dutta Rd., Salkia, Howrah 711106.

Cement Dealers' Association, 24-Parganas, 8/1, Sarsuna Main Rd., Calcutta 700007.

Ceramic Development Association, India Exchange, Calcutta 700001.

Chain Association, All India, 29-B, Bentinck St., Calcutta 700001.

Chemical Manufacturers' Association, Indian, India Exchange, India Exchange Place, Calcutta 700001.

Chemical Mfrs.' and Distributors' Association, Bharat, P-11, Mission Row Extn., Calcutta 700001.

Chemical Merchants' and Manufacturers' Association, Indian, India Exchange, 8th Floor, Calcutta 700001.

Chemists Association, W. Bengal, Homoeopathic Pharmaceutical, 113, Netaji Subhas Rd., Calcutta 700001.

Chemists' & Druggists' Association, Bengal, 10, Bonfield Le., Calcutta 700001.

Clearing Agents' Association, Calcutta, P-11, Mission Row Extension, Calcutta 700001.

Cloth Dealers' Assocn., Darjeeling, 6, Chowk Bazar, Darjeeling 734101.

Cold Storage Assocn., West Bengal, 8, Old Court House St., Calcutta 700001.

Comb Mfrs.' Association, Small Scale Celluloid, Bongaon, (24-Parganas Dist.).

Confectionery Manufacturers' Association, Indian, India Exchange, India Exchange Place, Calcutta 700001.

Corrugated Box Mfrs.' Association, Eastern India, 41, Chowringhee Rd., Calcutta 700016.

Cycle Manufacturers' Association of India, India Exchange, India Exchange Place, Calcutta 700001.

Cycle Traders' Association, Indian, 67, Bentinck St., Calcutta 700001.

Dal Mills Association Ltd., Bengal, 3, Baikuntha Sen Lne., Calcutta 700007.

Dry Fruit & Kirana Merchants' Assocn., West Bengal, 2/1, Ballavdas St., Calcutta 700007.

Earthmoving Equipment Parts Association of Eastern India, 10/1, Princep St., Calcutta 700013.

Electric Traders' Association, Calcutta, 55, Ezra St., Calcutta 700001.

Electrical Contractors' Association of Eastern India, P-11, Mission Row Extn., Calcutta 700001.

Electrical Manufacturers' Association, Indian, India Exchange, 7th Floor, Calcutta 700001.

Employers' Association, Calcutta, India Exchange, India Exchange Place, Calcutta 700001.

Engineering Industry, Association of Indian, 6, Netaji Subhash Rd., Calcutta 700001.

Export & Import Trade Assocn., Calcutta, 6, Netaji Subhash Rd., Calcutta 700001.

Export Inspection Council of India, World Trade Centre, 14/1B, Ezra St., Calcutta 700001.

Established by the Govt. of India to weed out substandard element from the export field, to stimulate greater quality consciousness within the country and to project an enduring & better image of India. *Regnl. Offices :* Bombay, Cochin, New Delhi.

Exporters' Association, West Bengal, 8, Old Court House St., Calcutta 700001.

Fan Makers' Association of India, India Exchange, India Exchange Place, Calcutta 700001.

Fasteners Association of India, Industrial, India Exchange, 2nd Floor, Calcutta 700001.

Flour Mills Association, Calcutta, 6, Netaji Subhash Rd., Calcutta 700001.

Forwarding & Clearing Agents' Association, Railway, 60, Rabindra Sarani, Calcutta 700001.

Foundry Association, Indian, India Exchange, 7th Floor, India Exchange Place, Calcutta 700001.

Freight Brokers' Association, Calcutta, Royal Exchange, 6, Netaji Subhash Rd., Calcutta 700001.

Garment Mfrs.' & Dealers' Assocn., West Bengal, 8, Old Court House St., Calcutta 700001.

Glass, Bottle and Cork Merchants' Association, Calcutta, 6, Ezra St., Calcutta 700001.

Glass Manufacturers' Association, Bengal, P-11, Mission Row Extn., Calcutta 700001.

Goods Transport Association, Calcutta, 43, Zakaria St., Calcutta 700007.

Grain, Oilseed & Rice Association, Calcutta, 6, Netaji Subhash Rd., Calcutta 700001.

Grocers Association, Calcutta, 135, B. R. B. B. Rd., Calcutta 700001.

Gunny Trades Association, 5, Clive Row, Calcutta 700001.

Hides and Skin Shippers' Association, Calcutta, 6, Netaji Subhash Rd., Calcutta 700001.

Hire Purchase Association, 6, Netaji Subhash Rd., Calcutta 700001.

Home Industries Association, Bengal, 57, Chowringhee, Calcutta 700016.

Hoisery Association, West Bengal, 8, Old Court House St., Calcutta 700001.

Hosiery Manufacturers' Association, Bengal, 219, Bepin Behari Ganguli St., Calcutta 700012.

Hotel and Restaurant Association of Calcutta Region, Spences Hotel, 4, Wellesley Place, Calcutta 700001.

Hydraulic Press Association, Calcutta, 6, Netaji Subhash Rd., Calcutta 700001.

Ice Manufacturers Association, Calcutta, 12, Netaji Subhash Rd., Calcutta 700001.

Import & Export Trade Association, Calcutta, Royal Exchange, Calcutta 700001.

Insurance Companies Association, Indian, India Exchange, India Exchange Place, Calcutta 700001.

Iron and Steel Scrap Dealers' Association, W. Bengal, 66, Bentinck St., Calcutta 700001.

Jute Association, Calcutta Baled, 6, Netaji Subhash Rd., Calcutta 700001.

Jute Balers' Association, 12, India Exchange Place, Calcutta 700001.

Jute Brokers' Association of India, India Exchange, Calcutta 700001.

Jute Dealers' Association, Bengal, 4, Commercial Bldgs., Calcutta 700001.

Jute Exchange Ltd., Calcutta, 21-B, Canning St., Calcutta 700001.

Jute Fabric Brokers Association, 6, Netaji Subhash Rd., Calcutta 700001.

Jute Fabric Shippers' Association, Calcutta, Royal Exchange, Calcutta 1.

Jute & Hessian Exchange Ltd., East India, 43, Netaji Subhash Rd., Calcutta 700001.

Jute & Jute Goods Buffer Stock Assocn., 6, Netaji Subhash Rd., Calcutta 700001.

Jute Mill Bobbin Manufacturers' Association, All India, P-11, Mission Row Extn., Calcutta 700001.

Jute Mills Agencies Assocn., 6, Netaji Subhash Rd., Calcutta 700001.

Jute Mills Association, Indian, Royal Exchange, Calcutta 700001. *Chmn. :* B. H. Singhania ; *Dy. Chmn. :* B. G. Bangur ; *V. Chmn. :* Gourilal Mehta ; *Exec. V. Chmn. :* S. P. Mukherjee ; *Chief Labour Adviser :* R. L. Moitro ; *P.R.O. :* M. C. Mukherji.

Jute Sellers' Association, Bharat, 23A, Netaji Subhash Rd., Calcutta 700001.

Kapok Mills Association, Indian 16, Satyanarain Temple Rd., Salkia, Howrah 711106.

Kirana (Spices) Merchants' Association, Calcutta, 29, Armenian St., Calcutta 700001.

Lac Exporters' Association, Indian, 6, Netaji Subhash Rd., Calcutta 700001.

Lamp Factories Association, Indian, P-11, Mission Row Extn., Calcutta 700001.

Lantern Manufacturers' Association, India Exchange, 7th Floor, Calcutta 700001.

Leather & Allied Products Marketing Co-op. Society Ltd., 13, South Tangra Rd., Calcutta 700015.

Magnet Wires and Cables Manufacturers' Association, C/o Electrical Industries Corpn., 49/1, Gariahat Rd., Calcutta 700019.

Manufacturers' Association, Howrah, 198, Bellilios Rd., Howrah 711101.

Manufacturers' Organisation, All India (West Bengal State Board), 113, Brabourne Rd., Calcutta 700001.

Marine Service Contractors' Association, P-11, Mission Row Extn., Calcutta 700001.

Master Printers' Association Ltd., W. Bengal, 32/1A, Creek Le., Calcutta 700014.

Master Shipping Contractors' Association, Calcutta, P-11, Mission Row Extn., Calcutta 700001.

Merchants' Association, Dawoodi Bohra, 30, Brabourne Rd., Calcutta 700001.

Merchants' Association, Siliguri, Siliguri. (Darjeeling Dist.)

Merchants' Association, Woodgola, 18, Woodgola Coal Depot, Calcutta 700015.

Metal Merchants' Assocn., Calcutta, 3/1/2, Armenian St., Calcutta 700001.

Metal Merchants' Assocn., East India, 8, Old Court House St., Calcutta 700001.

Metals Manufacturers' Association, Indian Non-Ferrous, India Exchange, India Exchange Place, Calcutta 700001.

Millowners' Association, Bengal, 2, Church Le., Calcutta 700001.

Mining Association, Indian,6, Netaji Subhash Rd., Calcutta 700001.

Mining Federation, Indian, 135, B. R. B. B. Rd., Calcutta 700001.

Monograph Association of India, 3, British Indian St., Calcutta 700001.

Motor Dealers' Association, Calcutta, 8, Bow St., Calcutta 700012.

Motor Dealers' Association, N. Bengal, Sevoke Rd., Siliguri 734401.

Motor Industries Association, 6, Netaji Subhash Rd., Calcutta 700001.

Oil Millers' Assocn., East India, 8, Old Court House St., Calcutta 700001.

Oil Mills Association, Bengal, 2, Ganesh Ch. Avenue, Calcutta 700013.

Paint Association, Indian, India Exchange, India Exchange Place, Calcutta 700001.

Paper Machinery Mfrs. Assocn., 6, Netaji Subhash Rd., Calcutta 700001.

Paper Makers' Association, Indian, 6, Netaji Subhash Rd., Calcutta 700001.

Paper Mills Association, Indian, India Exchange, India Exchange Place, Calcutta 700001.

Paper Traders' Association, Calcutta, P-11, Mission Row Extn., Calcutta 700001.

Petroleum Dealers' Association, West Bengal, 1/1A, Vansittart Row, Calcutta 700001.

Petroleum Traders, Federation of All India, 1/1, Vansittart Row, Calcutta 700001.

Pharmaceutical Congress Association, Indian, C/o Standard Pharmaceuticals Ltd., 67, Dr. Suresh Sarkar Rd., Calcutta 700014.

Photographic Traders' Assocn., East India, 3/1/2, Armenian St., Calcutta 700001.

Pipe Manufacturers' Association, Cast Iron Spun, India Exchange, Calcutta 700001.

Plastics Federation, Indian, 13/A, Govt. Place East, Calcutta 700001.

Plywood Manufacturers' Association of India, P-11, Mission Row Extn., Calcutta 700001.

Plywood Manufacturers' Association of West Bengal, 22, Strand Rd., Calcutta 700001.

Pottery Manufacturers Assocn., All India, India Exchange, India Exchange Place, Calcutta 700001.

Poultry Industry, Eastern India Association of, 57-B, Townsend Rd., Calcutta 700025.

Powerloom Owners' Assocn., 8, Old Court House St., Calcutta 700001.

Printers' Association, Bengal, 32, Acharya Prafulla Chandra Rd., Calcutta 700009.

Produce Association, Indian, 205, Rabindra Sarani, Calcutta 700007.

Publishers' & Booksellers' Association of Bengal, 93, Mahatma Gandhi Rd., Calcutta 700007.

Pump Manufacturers' Association, Indian, India Exchange, 7th Floor, Calcutta 700001.

Radio Merchants' Association, All India, 3/C, Madan St., Calcutta 700013.

Refractory Makers' Association, Indian, 6, Netaji Subhash Rd., Calcutta 700001.

Refrigeration Traders' Association, C/o Air Conditioning Corpn. Ltd., 17, Taratolla Rd., Calcutta 700053.

Re-Rollers' Assocn., Special Section, 3/1/2, Armenian St., Calcutta 700001.

Re-Rollers' Association Limited, Bharat Small, 66, G. T. Rd., Liluah, Howrah 711101.

Rice Merchants' Association, West Bengal, 133, Maharshi Debendra Rd., Calcutta 700005.

Rice Mills Association, East India, 8, Old Court House St., Calcutta 700001.

River Transport Assocn., Calcutta, 6, Netaji Subhash Rd., Calcutta 700001.

Rolling Mills Association, West Bengal, 3/1/2, Armenian St., Calcutta 700001.

Rope Manufacturers' Association, Indian, India Exchange, India Exchange Place, Calcutta 700001.

Rubber Industries Association, All India, 7, Waterloo St., Calcutta 700001.

Salt Association Ltd., Calcutta, 11, Chittaranjan Ave., Calcutta 700001.

Salt Dealers' Association, Calcutta, 3-B, Beniatola St., Calcutta 700001.

Saw Mill's Association of Eastern India, P-11, Mission Row Extn., Calcutta 700001.

Scientific Traders Association, Santragachi, Changitala, Howrah 711104.

Share & Stock Exchange Association Ltd., Bengal, 21B, BRBB Rd., Calcutta 700001.

Sheet Merchants' Association, Bengal Galvanised, 20, Strand Rd., Calcutta 700001.

Ship Contractors' Association, Calcutta Master, P-11, Mission Row Extn., Calcutta 700001.

Shippers' Association, Eastern India, 6, Netaji Subhash Rd., Calcutta 700001.

Silk Association of India, 8, Old Court House St., Calcutta 700001,

Skins & Leather Association, Indian, 6, Netaji Subhash Rd., Calcutta 700001.

Small Industries, (Eastern Region), Federation of Associations of, P31, CIT Rd., Calcutta 700014.

Small and Medium Industries Federation, West Bengal, P-11, Mission Row Extn., Calcutta 700001.

Small Scale Electronic Industries Association, 8, Madan St., Calcutta 700001.

Small Scale Non-ferrous Industries Association, P-11, Mission Row Extn., Calcutta 700001.

Soap Makers' Association Ltd., West Bengal Small Scale, 2, Ganesh Ch. Avenue, Calcutta 700013.

Soap and Toiletries Makers' Association, Indian, P-11, Mission Row Extn., Calcutta 700040.

Spices Dealers' Association, Bengal, 24, Maharshi Debendra Rd., Calcutta 700007.

Stationery and Office Equipment Association of India, P-11, Mission Row Extn., Calcutta 700001.

Steel Exporters' Association, 10, Camac St., Calcutta 700017.

Steel Fabricators' & Distributors', Association of, 46C, Chowringhee Rd., Calcutta 700012.

Steel Furnace Association of India, 1-A, Mona Lisa, 17, Camac St., Calcutta 700017.

Steel Importers' Association of India, India Exchange, India Exchange Place, Calcutta 700001.

Steel Merchants' Association of India, India Exchange, 8th Flr., Calcutta 700001.

Steel Re-Rollers' Association, All India, 3/1/2, Armenian St., Calcutta 700001.

Steel Re-Rolling Mills Association of India, 2, Brabourne Rd., Calcutta 700001.

Steel Wire Manufacturers' Association of India, 6, N. Subhas Rd., 2nd Flr., Calcutta 700001.

Stevedores' Association, Calcutta Master, P-11, Mission Row Extn., Calcutta 700001.

Stevedores' Association, Master, 6, Netaji Subhas Rd., Calcutta 700001.

Stock Exchange Association Ltd., Calcutta, 7, Lyons Range, Calcutta 700001.

Strawboard Manufacturers' Assocn., Indian, 8, Old Court House St., Calcutta 700001.

Sugar Merchants' Association, Bengal, 2-C, Ramkumar Rakhit Le., Calcutta 700007.

Sugar Merchants' Association, Calcutta, 4, Ramkumar Rakhit Le., Calcutta 700007.

Sugar Mills Association, Indian, India Exchange, Calcutta 700001.

Tata-Isco Dealers' Association, 20, Strand Rd., Calcutta 700001.

Tea and Ancillary Traders & Industries Assocn., 3/1/2, Armenian St., Calcutta 700001.

Tea Association, Indian, Royal Exchange, 6, Netaji Subhas Rd., Calcutta 700001.

Tea Association of India, India Exchange 4, India Exchange Place, Calcutta 700001. *Pres.:* S. S. Gupta; *Sr. V. Pres.:* H. R. Shah; *V. Pres.:* S. L. Dhanuka; *Secy.-Genl.,* C. S. Pande.

Tea Merchants' Association, Indian, India Exchange, Calcutta 700001.

Tea Packeters' Association of India, 9, Shakespeare Sarani, Calcutta 700016.

Tea Planters' Association, Indian, Post Box No. 74, Jalpaiguri 735101.

Tea Traders' Association, Calcutta, 6, Netaji Subhash Rd., Calcutta 700001. *Chmn.:* P. D. Goradia; *V. Chmn.:* R. N. Gray; *Secy.:* Amit Sen.

Textile Association (India), 1/1 A, Dr. Amal Roychowdhury Lane, Calcutta 700009.

Textile Chamber, Bharat, 208, Jamunalal Bajaj St., Calcutta 700007..

Textile Dealers' Association, Bengal, 30, Cotton St., Calcutta 700007.

Textile Dealers' Association, West Bengal, P-11, Mission Row Extn., Calcutta 700001.

Textile Merchants' Association, 160, Jamunalal Bajaj St., Calcutta 700007.

Tinplate Fabricators' Association, 6, Netaji Subhash Rd., Calcutta 700001.

Tobacco Merchants' Association, Calcutta Biri, 1, Rupchand Roy St., Calcutta 700007.

Trades Association, Bengal, P-11, Mission Row Extn., Calcutta 700001.

Trades Association, Calcutta, 18-H, Park St., Calcutta 700016.

Trades & Industries Assocn., Bengal, P-11, Mission Row Extension, Calcutta 700001.

Tube Importers Association Ltd., Calcutta, 18, N. Subhas Rd., Calcutta 700001.

Tyre Dealers' & Retreaders' Association, Calcutta, 3, Gokhale Rd., Calcutta 700020.

Umbrella Rib Manufacturers' Association, India Exchange, 8th Floor, Calcutta 700001.

Vitreous Enamellers' Association, C/o Sur Enamel & Stamping Works P. Ltd. 24, Dr. L. M. Bhattacherjee Rd., Calcutta 700014.

Warehouse Association, Bengal Bonded, 25, N. Subhas Rd., Calcutta 700001.

Welding Dealers' Assocn., Indian, 3/1/2, Armenian St., Calcutta 700001.

Wheat & Seeds Association, Indian, 60, Asoka Avenue, Calcutta 700040.

Wine, Spirit and Beer Association of India, 6, N. Subhas Rd., Calcutta 700001.

Wire Industries Association, Indian, 222, Rabindra Sarani, Calcutta 700007.

Wire Rope Manufacturers' Association, Indian, India Exchange, India Exchange Place, Calcutta 700001.

Yarn Merchants' Association, Calcutta, 89, Cross St., Calcutta 700007.

Zinc Oxide Manufacturers' Association, Indian, India Exchange, India Exchange Place, Calcutta 700001.

CULTURAL, SOCIAL AND PROFESSIONAL

Agricultural and Horticultural Society of India, Royal, 1, Alipore Rd., Calcutta 700027.

Agricultural Society of India, 35, Ballygunge Circular Rd., Calcutta 700019.

Anthropological Society, Indian, C/o Anthropological Survey of India, 27, J. L. Nehru Mrg., Calcutta 700013.

Arya Samiti, Arya Samiti Rd., Behala, Calcutta 700034.

Astrological Association of India, 45A, S. P. Mukherjee Rd., Calcutta 700026.

Astrological and Astronomical Society, All India, 88/2, R. A. Kidwai Rd., Calcutta 700013.

Bible Society of India and Ceylon, 23, J. L. Nehru Rd., Calcutta 700013.

Bijnan Parishad, Bangiya, P. 23, R. R. K. St., Calcutta 700006.

Billiards Association and Control Council of India, C/o Great Eastern Hotel, Old Court House St., Calcutta 700001.

Blood Bank, Calcutta, 186, Rash Behari Ave., Calcutta 700029.

Bohurupee, 7, Lower Ring, Calcutta 700017.

Botanical Society of Bengal, 35, Ballygunge Circular Rd., Calcutta 700019.

Brastachari Society, Bengal, 191/1, B. B. Ganguly St., Calcutta 700012.

Buddhist Society of India and Buddhist Mission of India, 31/1, Baghbazar St., Calcutta 700003.

Cardiological Society of India, 3, Creek Row, Calcutta 700014.

Ceramic Society, Indian, Central Glass & Ceramic Research Institute, Calcutta 700032.

Chemical Society, Indian, 92, Acharya Prafulla Chandra Rd., Calcutta 700009.

Child Health & Community Welfare, Society for 13D, Beadon St., Calcutta 700006.

Child Welfare, West Bengal Council for, 55/6, Purna Das Rd., Calcutta 700029.

Children in India, Society for the Protection of, 2B, Camac St., Calcutta 700016.

Children's Development Council, 3, S. H. Goenka St., Calcutta 700007.

Children's Little Theatre, Aban Mahal, Gariahat Rd., Calcutta 700019.

Company Secretaries' of India, Institute of (Eastern India Regnl. Council), C/o Andrew Yule & Co. Ltd., 8, Clive Row, Calcutta 700001.

Consumers' Association, 3/1/2, Armenian St., Calcutta 700001.

Copper Information Centre, Indian, 27B, Camac St., Calcutta 700016.

Dakshinee, 'Dakshinee Bhavan', 1, Deshapriya Park West, Calcutta 700026.

Engineers, Association of, 24, Netaji Subhas Rd., Calcutta 700001.

Engineers, Indian Society of, 16, India Exchange Place, Calcutta 700001.

Engineers (India), Institution of, 8, Gokhale Rd., Calcutta 700020.

Equitation and Horsemastership, Indian Society of, 51, Chowringhee, Calcutta 700016.

Film Societies of India, Federation of, R-C7, 3, Chittaranjan Avenue, Calcutta 700013.

Folklore Society, Indian, 3, British Indian St., Calcutta 700001.

Football Association, Indian, 11/1, Sooterkin St., Calcutta 700013.

Gaudiya Mission, Sri Gaudiya Math, 16A, Kali Prasad Chakravarthy St., Calcutta 700003.

Geographical Society of India, 35, Ballygunge Circular Rd., Calcutta 700019.

Geohydrologists', Indian Association of, Geological Survey of India, 4, Chowringhee Lane, Calcutta 700016.

Geological, Mining and Metallurgical Society of India, Geology Dept., Calcutta Univ., Calcutta 700019.

Hind Seva Samity, 93, M. Gandhi Rd., Calcutta 700007.

Hindu Satkar Samity, 93, Mahatma Gandhi Rd., Calcutta 700007.

Homoeopathic Association, West Bengal Registered, 144, Ahiritola St., Calcutta 700005.

Homoeopathic Federation, W. Bengal State, 87, Lenin Sarani, Calcutta 700013.

Indian Association, 62, Bowbazar St., Calcutta 700012.

Iran Society, 12, Dr. M. Ishaque St., Calcutta 700016.

Journalists' Association, Indian, 249-B, B. B. Ganguly St., Calcutta 700012.

Law Institute (W. Bengal Unit), Indian, 2 & 3, Hastings St., Calcutta 700001.

Lead/Zinc Information Centre, Indian, 2, S. N. Pandit St., Calcutta 700020.

Leather Technologists' Association, Indian, Mercantile Bldgs., Lall Bazar, Calcutta 700001.

Legal Aid Society, Indian, 2, Canal St., Calcutta 700014.

Library Association, Bengal, P 134, CIT Scheme, LII, Calcutta 700014.

Maha Bodhi Society of India, 4-A, Bankim Chatterji St., Calcutta 700012. *Centres:* Sarnath, Gaya, New Delhi, Buddhagaya, Bombay, Madras, Lucknow, Ajmer, Kalimpong, Cuttack & Sanchi.

Mahila Seva Samity, 8, Government Place (N), Calcutta 700001.

Manimela Mahakendra, Rabindra Sarobar Stadium, Block 11, Room V, Calcutta 700029.

Management Association, Calcutta, 1, Shakespeare Sarani, Calcutta 700016.

Marwari Federation, All India, 152-B, M. Gandhi Rd., Calcutta 700007.

Mathematical Association, Deptt. of Mathematics, Jadavpur Univ., Calcutta 700032.

Mathematical Society, Calcutta, 92, Acharya P. Chandra Rd., Calcutta 700009.

Medical Association, Indian, W. Bengal State Branch, 67, Lenin Sarani, Calcutta 700013.

Medical Council, West Bengal, 8, Lyons Range, Calcutta 700001.

Metallurgical Association, Indian, 12, Mission Row, Calcutta 700001.

Moral & Social Hygiene, Association for, 402/1A, N.S.C. Bose Rd., Calcutta 700047.

Motion Pictures Association, Eastern India, 98E, Chowringhee Square, Calcutta 700016.

Mountaineering Institute, Himalayan, Jawahar Parbat, Darjeeling 734101.

Museum, Indian, 27, J. L. Nehru Rd., Calcutta 700013.

Muslim Welfare Society, 98, Rabindra Sarani, Calcutta 700001.

Nurses Association, Calcutta, 65-A, Dharamtolla St., Calcutta 700013.

Nursing Council, West Bengal, 8, Lyons Range, Calcutta 700001.

P. E. N. All India Writers' Association (W. Bengal Branch), 72, Hindustan Park, Calcutta 700029.

Philosophical Congress, Indian, Visva Bharati University, Santiniketan 731235.

Pharmacy Council, West Bengal, 8, Lyons Range, Calcutta 700001.

Photographers, Association of, 224A, Vivekananda Rd., Calcutta 700006.

Physical Culture Association, All Bengal, 5, Krishna Bihari Sen St., Calcutta 700007.

Physical Education & Recreation, National Association of, 24C, Amherst Row, Calcutta 700009.

Pinjrapole Society, Calcutta, 34, Armenian St., Calcutta 700001.

Productivity Council, Asansol, 'Enclave', G. T. Rd. (West), Asansol 713301.

Productivity Council, Calcutta, 9, Syed Amir Ali Ave., Calcutta 700017.

Psycho-Analytical Society, P-535, Raja Basanta Roy Rd., Calcutta 700029.

Psychotherapeutical Society, Indian, Sch. 49, P-23, CIT Rd., Calcutta 700014.

Public Health Association, Indian, 110, Chittaranjan Ave., Calcutta 700012.

Purchasing Officers' Association of India, 88, Short St., Calcutta 700017.

Quality Control, Indian Society for, India Exchange, 7th Floor, Calcutta 700001.

Ramakrishna Math and Mission, P. O. Belur Math. Howrah Dist.

Ramakrishna Mission Institute of Culture, 21, Gol Park, Calcutta 700029.

Ramakrishna Vedanta Math, 19-B, Raja Rajkrishna St., Calcutta 700006.

Red Cross Society, Indian (W. Bengal State Branch), 5 & 6, Govt. Place North, Calcutta 700001.

Safety First Association of India (Bengal Provincial Branch), 77A, Park St., Calcutta 700016.

Salvation Army, 37, Dharamtolla St., Calcutta 700013.

Sangit Samaj Surer Maya, 171/26 Roy Bahadur Rd., Calcutta 700034.

Science, Indian Association for the Cultivation of, Jadavpur, Calcutta 700032.

Science Congress Association, Indian, 64, Dilkusha St., Calcutta 700017.

Science News Association, Indian, 92, Acharya P. C. Rd., Calcutta 700009.

Scouts and Guides, Bharat, 5, Govt. Place North, Calcutta 700001.

Seamen of India, National Union of, 10/2, Watgunge St., Calcutta 700023.

Shishu Niketan, 32/10 A, Beadon St., Calcutta 700006.

Special Libraries & Information Centre, Indian Assocn. of, Albert Hall, 15, College St., Calcutta 700012.

Sports, West Bengal State Council of, 8, Lyons Range, Calcutta 700001.

St. John's Ambulance Brigade, 5, Govt. Place North, Calcutta 700001.

Statistical Association, Calcutta, 35, Ballygunge Circular Rd., Calcutta 700019.

Swimming Association, National, Pavilion, Azad Hind Bagh, Calcutta 700006.

Table Tennis Association, Bengal, 34/1, Lala Lajpatrai Saranee, Calcutta 700020.

Tamil Sangham, Bharathi, 93-A, Rashbehari Ave., Calcutta 700026.

Tax Payers and Consultants Association, 12, Old Post Office St., Calcutta 700001.

Taxi Association, Bengal, 157B, Lenin Sarani, Calcutta 700013.

Taxi Association, Calcutta, 16, Prannath Pandit St., Calcutta 700025.

Teachers' Association, All Bengal, 15, Bankim Chatterjee St., Calcutta 700012.

Teachers' Organisation, All India Federation of University & College, 89, M. Gandhi Rd., Calcutta 700007.

Theoretical & Applied Mechanics, Indian Society of, Indian Institute of Technology, Kharagpur 721301.

Theosophical Society, Bengal, 4/3A, Bankim Chatterjee St., Calcutta 700012.

Transport Users' Association, India Exchange Place, Calcutta 700001.

Tuberculosis Association, Bengal, 21, Dr. Sundari Mohan Ave., Entally, Calcutta 700014.

Tuberculosis Relief Association, 73, Dharamtolla St., Calcutta 700013.

United Kingdom Citizens' Association, 51, Chowringhee Rd., Calcutta 700016.

Vivekananda Mission, 10, Ramakrishna Le., Baghbazar, Calcutta 700003.

Vivekananda Society, 151, Vivekananda Rd., Calcutta 700006.

West Bengal, Andaman & Nicobar Charitable Society, 9, Clive Row, Calcutta 700001.

Women's Conference, All India, C.I.T. Scheme IV, Beliaghata Main Rd., Calcutta 700010.

Women's Union, All Bengal, 89, Elliot Rd., Calcutta 700016.

Writers' Guild, 5, Dwarakanath Tagore Le., Calcutta 700007.

Y.M.C.A., 25, Chowringhee Rd., Calcutta 700003.

Young Women's Christian Association, 134, Surendra Nath Banerji Rd., Calcutta 700013.

Zoological Society of India, 34, Chittaranjan Ave., Calcutta 700012.

EDUCATIONAL AND RESEARCH

Adult Education Association, Bengal, 1/12, College Square, Calcutta 700012.

Animal Husbandry & Dairying, State Institute for, Haringhata Farm, P.O. Mohanpur. (Nadia Dist.)

Art in Industry, Indian Institute of, 17, Park St., Calcutta 700017.

Asian & African Relations, Institute of, 57/B, Beltola Rd., Calcutta 700025.

Astro-Research Bureau, 17, Brindaban Mullick 1st Lane, Calcutta 700009.

Aswini Kumar Institute, 5, Janak Rd., Calcutta 700029.

Biological Science, Indian Association of, Life Science Centre, Calcutta Univ., 35, Ballygunge Circular Rd., Calcutta 700019.

Bose Institute, 93/1, Upper Circular Rd., Calcutta 700009.

Cancer Research Centre, Chittaranjan National, 37, Syamaprosad Mukherjee Rd., Calcutta 700026.

Catering Technology and Applied Nutrition, Institute of, 21, Convent Rd., Calcutta 700014.

Chartered Accountants of India, Institute of, 41, Chowringhee Rd., Calcutta 700016.

Chemical Engineers, Indian Institute of, Raja Subodh Mullick Rd., Calcutta 700032.

Chemists (India), Institution of, Chemical Dept., Medical College, Calcutta 700012.

Child Health, Institute of, 95, Dilkhusa St., Calcutta 700017.

Cholera Research Centre, 3, Kyd St., Calcutta 700016.

Computer Education, Institute of, Dabriwala House, 10, Middleton Row, Calcutta 700016.

Consulting Engineers, Institute of, 9, Hastings St., Calcutta 700001.

Cost and Works Accountants of India, Institute of, 12, Sudder St., Calcutta 700016.

Detective Training & Forensic Institutes, Central, 20, Gorachand Rd., Calcutta 700014.

Economic & Scientific Research Assocn., India Exchange, India Exchange Place, Calcutta 700001.

Electronic Technology, Indian Institute of, 8/8, R. N. K. St., Calcutta 700005.

Foundrymen, Institute of Indian, 1/2, Allenby Rd., Calcutta 700020.

Industrial Engineers (India), Institution of, Calcutta Technical School, 110, S. N. Banerjee Rd., Calcutta 700013.

Industrial Welfare Institute, Indian, 19, Gariahat Rd., Calcutta 700019.

Insurance Institute, Indian, 8, Madan St., Calcutta 700013.

Jute Agricultural Research Institute, Barrackpore 743101.

Jute Industries' Research Association, Indian, 17, Taratola Rd., Calcutta 700053.

Jute Technology, Institute of, 35, Ballygunge Circular Rd., Calcutta 700019.

Management, Indian Institute of, "Emerald Bower", 56-A, Barrackpore Trunk Rd., Calcutta 700050.

Medical Aid and Research Society, Calcutta, K. S. Ray T. B. Hospital, Jadavpur, Calcutta 700032.

Metals, Indian Institute of, 2, Sambhu Nath Pandit St., Calcutta 700020. *Pres.:* P. Anant; *Vice-Pres.:* F. A. A. Jasdanwalla; *Hon. Secy.:* Dr. M. N. Parthasarathi.

Mining, Geological and Metallurgical Institute of India, 29, Chowringhee Rd., Calcutta 700016.

National Medical Institute, Calcutta, 32, Gorachand Rd., Calcutta 700014.

Paint Research Association (IPRA), Indian, C/o National Test House, 11/1, Judges Court Rd., Calcutta 700027.

Pasteur Institute, School of Tropical Medicine, Chittaranjan Ave., Calcutta 700012.

Personnel Management, Indian Institute of, 17, Park St., Calcutta 700016.

Photography, Indian Institute of, 32, A. M. Rd., Calcutta 700020.

Plywood Industries Research Association, Indian, 2/2, Biren Roy Rd. West, Calcutta 700061.

Production Engineers (Lond.), Institution of, 12, Chowringhee Square, Calcutta 700001.

River Research Institute, 11A, Free School St., Calcutta 700016.

Road Transport, Indian Institute of, 1/2, Lord Sinha Rd., Calcutta 700016.

Saha Institute of Nuclear Physics, 92, Acharya Prafulla Chandra Rd., Calcutta 700009.

Santi Institute, 26/1/A, Sasi Bhuson Dey St., Calcutta 700012.

Secretaries, Chartered Institute of (India Association), C/o Wellman Incandescent India Ltd., 8, Harrington St., Calcutta 700016.

Social Welfare and Business Management, Indian Institute of, 3, Madan Mohan Sen St., Calcutta 700007.

Socio Economic Research Institute, C-19, College Mkt., Calcutta 700012.

Statistical Institute, Indian, 203, Barrackpore Trunk Rd., Calcutta 700035.

Tea Research Association, 6, Netaji Subash Rd., Calcutta 700001.

Technology, Indian Institute of, Kharagpur 721301.

Theoretical Physics, Institute of, 4/1, Mohan Bagan Le., Calcutta 700004.

Torsteel Research Foundation in India, 4, Govt. Place North, Calcutta 700001.

Women's Education Society, Bani Mandir, 2, Dr. A. R. Chowdhury Le., Calcutta 700019.

CHAMBERS OF COMMERCE

ANDHRA PRADESH

Andhra Chamber of Commerce, 68-B, Rashtrapati Rd., Secunderabad 500003.

Andhra Film Chamber of Commerce, Andhraratna Rd., Gandhinagaram, Vijayawada 520003.

Bhimavaram Chamber of Commerce, Bhimavaram 534201.

Chamber of Commerce, Tadepalligudem 534101.

Chamber of Commerce, Main Rd., Vizianagaram 531201.

Cocanada Chamber of Commerce, Commercial Rd., Kakinada 533001.

Federation of Andhra Pradesh Chambers of Commerce & Industry, 3-5-822/6, Hyderguda, Hyderabad 500001. *Pres. :* Maddi Ranganath Sai ; *Secy. :* C. A. Rebello.

Federation of East Godavari Dist. Chamber of Commerce & Industry, Devata Bhavan, Rajahmundry 533101.

Godavari Chamber of Commerce, Vallabhbhai St., Kakinada 533001.

Gouthami Chamber of Commerce, Main Rd., Rajahmundry 533101.

Hyderabad State Film Chamber of Commerce, 4-3-316, Rashtrapati Rd., Secunderabad 500003.

Indian Chamber of Commerce, P. Box 67, Guntur 522001.

Krishna District Chamber of Commerce, Fort Rd., Masulipatnam 521001.

Kurnool District Chamber of Commerce, No. 1/8, Main Bazar, Peta, Kurnool 518001.

Nellore Chamber of Commerce, Tobacco Field, Nellore 524001.

Palakol Chamber of Commerce, Palakol. W. Godavari Dist.

Rajahmundry Chamber of Commerce Ltd., Khaidakotla St., Rajahmundry 533101.

Vijayawada Chamber of Commerce, & Industry, North Block No. 42, Kaleswararao Mkt., Vijayawada 520001.

Vizagapatam Chamber of Commerce, 25/8/170, Main Rd., Visakhapatnam 530001.

Warangal Chambers of Commerce, 29/67, Grain Mkt. Area, Warangal 506002

West Godavari Federation of Chambers of Commerce & Industry, Plantains Bazar, Main Rd., Eluru 534001.

ASSAM & MEGHALAYA

Assam Chamber of Commerce, Bara Bazar Rd., Shillong 793002.

Assam Chamber of Commerce & Industry, Morello Bldg., Shillong 793001.

Assam National Chamber of Commerce, C/o Orient (India) Ltd., Ulubari, Gauhati 781007.

Frontier Chamber of Commerce, G. S. Rd., Shillong 793002.

Kamrup Chamber of Commerce, Gauhati 781001.

National Chamber of Commerce, Tinsukia 786125.

Upper Assam Chamber of Commerce, Jorhat 785001.

BIHAR

Bihar Chamber of Commerce, Judges' Court Rd., P.O. Box No. 71, Patna 800001. *Pres.:* J. P. Saxena ; *Secy. Genl. :* K. P. Kayan.

Central Bihar Chamber of Commerce, Marwari Panchayat, Dharamshala Rd., Gaya 823001.

Chotanagpur Chamber of Commerce & Industries, Main Rd., Ranchi 834001.

Eastern Bihar Chamber of Commerce, Bhagalpur 812002.

Jamshedpur Chamber of Commerce, 35, Laxmi Mansion, Jamshedpur 831001.

North Bihar Chamber of Commerce & Industry, Muzaffarpur 842001.

Patna Divisional Chamber of Commerce & Industry, S. P. Varma Rd., Patna 800001.

Shahbad Chamber of Commerce & Industry, Jail Rd., Arrah 802301.

DELHI

Associated Chamber of Commerce & Industry of India, Allahabad Bank Bldg., 17, Parliament St., New Delhi 110001. *Pres. :* Akbar Hydari ; *Exec. V. Pres. :* A. D. Moddie ; *Dy. Press. :* D. P. Goenka ; P. N. Mathur ; *Secy. :* C. Balakrishnan.

Delhi Chamber of Commerce, Dilbar Bldg., Paharganj, New Delhi 110055.

Federation of Indian Chamber of Commerce & Industry, Federation House, Tansen Marg, New Delhi 110001. *Pres.:* Harish Mahindra; *V. Pres.:* Vacant; *Secy.-Genl.:* G. L. Bansal; *Addl. Secy.-Genl.:* P. Chentsal Rao.

Indo-American Chamber of Commerce (N. Indian Council), Phelps Bldg., 9-A, Connaught Place, New Delhi 110001.

Indo-German Chamber of Commerce, 8-FG, Himalaya House, 2, Kasturba Gandhi Mrg., New Delhi 110001.

Indo-Polish Chamber of Commerce & Industries, Phelps Bldg., Connaught Place, New Delhi 110001.

International Chamber of Commerce, Indian National Cttee., Federation House, New Delhi 110001. *Pres.:* A. K. Jain; *Vice-Pres.:* S. P. Godrej; *Secy.-Genl.:* G. L. Bansal; *Addl. Secy. Genl.:* P. Chentsal Rao.

Punjab, Haryana and Delhi Chamber of Commerce & Industry, Phelps Bldg., 9-A, Connaught Place, New Delhi 110001. *Chmn.:* M. K. Mehta; *Dy. Chmn.:* Bishamber Das Kapur; *Secy.:* M. L. Nandrajog.

Punjab Merchants' Chamber, 45, Khurshid Mkt., Sadar Bazar, Delhi 110006.

United Chamber of Trade Associations, Nai Sarak (Katra Rathi), Delhi 110006.

GOA

Goa Chamber of Commerce & Industry, P. Box No. 59, Panaji 403001.

GUJARAT

Broach Chamber of Commerce & Industry, Lallubhai Chakla, Bharuch 392001.

Central Gujarat Chamber of Commerce, Federation Bldg., Race Course Rd., Vadodara 390009.

Gandhidham Chamber of Commerce & Industry, BBZ-N-41, Gandhidham 370201.

Gujarat Chamber of Commerce & Industry, Gujarat Chamber Bldg., Ranchhodlal Rd., Ahmedabad 380009. *Pres.:* Indravadan P. Shah; *V.-Pres.:* Popatlal C. Dani; *Hon. Secy.:* Jehangir R. Cama.

Gujarat Sindhi Chamber of Commerce & Industry, Indian House, Sarangpur, Ahmedabad 380002.

Jetpur Chamber of Commerce, Mahatma Gandhi Rd., Jetpur.

Junagadh Chamber of Commerce, Mahalaxmi St., Junagadh 362001.

Morvi Chamber of Commerce & Industries, P. Box No. 5, Morvi 363641.

Nawanagar Chamber of Commerce, Digvijaysingh Chamber Bldg., Grain Mkt., Jamnagar 361001.

Panchmahal Chamber of Commerce, Station Rd., Godhra 389001.

Porbandar Chamber of Commerce, Manek Chowk, Porbandar 365075.

Saurashtra Chamber of Commerce, Old Darbargadh, Bhavnagar 364001.

Savarkundla Chamber of Commerce, Savarkundla.

Shri Zalawad Chamber of Commerce & Industries, Main Rd., Surendranagar 363001.

Sorath Chamber of Commerce, Vakharia Bazar, Veraval 362265.

Southern Gujarat Chamber of Commerce & Industry, Samruddhi, Nanpura, Surat 395001.

HARYANA

Haryana Chamber of Commerce & Industry, 324-B, Model Town, Ambala City 134003.

Northern India Chamber of Commerce, Desi Beopar Mandal, Ambala Cantt. 133001.

JAMMU & KASHMIR

Chamber of Commerce, Jammu 180001.

Kashmir Chamber of Commerce & Industry, Residency Rd., Srinagar 190001.

KARNATAKA

Asian Chamber of Commerce, "Dhammapada", 1st Main V Block, Kumara Park West, Bangalore 560020.

Bangarpet Chamber of Commerce, Bangarpet 563114.

Belgaum Chamber of Commerce & Industries, 673, Raviwar Peth, Belgaum 590002.

Bellary District Chamber of Commerce, Bangalore Rd., Bellary 583101.

Chamber of Commerce & Industries, Aland (Gulbarga Dist).

Chamber of Commerce & Industry, Prabha Pictures House Bldg., Hanumantha Rao St., Mysore 570001.

Chitradurga Merchants' Chamber, Chitradurga 577501.

Dharwar Chamber of Commerce, Dharwar 580001.

Federation of Karnataka Chambers of Commerce & Industry, Kempegowda Rd., Bangalore 560009. *Pres.:* K. G. Subbarama Setty; *V. Pres.:* A. Venkataramana Setty; *Secy.:* S. C. Rao.

Hospet Chamber of Commerce, Near Town Reading Room, Hospet 583201.

Hyderabad Karnatak Chamber of Commerce & Industry, No. 7-671, Nehru Ganj Rd., Gulburga 585101.

Kanara Chamber of Commerce, P. Box No. 116, Bunder, Mangalore 575001. *Pres.:* Sowkar M. Baba Pai; *Vice-Pres.:* K. C. Nair; *Hon. Secs.:* G. Sadananda Prabhu, M. S. Pai.

Karnataka Chamber of Commerce & Industry, Jayachamaraj Nagar, Hubli 580020. *Pres.:* R. G. Wali; *Vice-Press.:* J. P. Javali, P. S. Talikoti, L. V. Muddanna; *Hon. Secy.:* V. M. Mirji.

Udipi Chamber of Commerce, Ind. & Agriculture, Mukund Nivas, Udipi 576101.

KERALA

Calicut Chamber of Commerce & Industry, Beach Rd., Calicut 673001.

Chamber of Commerce, Arecal Bldgs., M. C. Rd., Kottayam 686001.

Chamber of Commerce, Kunnamkulam. Trichur Dist.

Chamber of Commerce, Trichur 680001.

Chamber of Commerce, Chalai, Trivandrum 695001.

Cochin Chamber of Commerce & Industry, Bristow Rd., Willingdon Island, Cochin 682003. *Pres.:* R. Indu Sekhar; *Vice-Pres.:* Venugopal C. Govind; *Secy.:* P. Sethuram.

Ernakulam Chamber of Commerce, Chamber Bldg., Shanmukham Rd., Ernakulam 682011.

Indian Chamber of Commerce, Kottukulam Rd., P.O. Box No. 236, Cochin 682002. *Pres.:* T. Koshy; *Vice-Pres.:* Abhay Kumar A. Lalan; *Secy.:* Dr. K. B. Varma.

Malabar Chamber of Commerce, Calicut 673001. *Pres.:* R. N. Saboo; *Vice-Press.:* B. V. Abdulla Koya, R. M. Mehta; *Hon. Secs.:* C. C. Vulson, S. V. Govindaswamy.

North Malabar Chamber of Commerce, Fort Rd., Cannanore 670001.

North Travancore Chamber of Commerce, Bank of Alwaye Bldgs., Alwaye 683101.

Palghat Chamber of Commerce, Palghat 678001. *Pres.:* A. Achutha Bhaskar; *V.-Press.:* V. K. Rama lingam Chettiar, P. I. Simon; *Hony. Secs.:* R. S. P. Swaminathan, U. P. Ramakrishnan.

Regional Chamber of Commerce, Big Bazar, Palghat 678001.

Travancore Chamber of Commerce, Alleppey 688001.

MADHYA PRADESH

Adiwasi Chamber of Commerce, Alirajpur.

Bhopal Chamber of Commerce & Industry, Bhopal 462001.

Central India Chamber of Commerce & Industry, Bambakhana, Ujjain 456001.
Chamber of Commerce, Ratlam 457001.
Madhya Pradesh Chamber of Commerce & Industry, Chamber Bhavan, Lashkar, Gwalior 474001. *Pres. :* D. P. Mandelia; *V. Pres.:* R. P. Somani ; *Hon. Secy. :* Dr. V. K. Gangwal.
Mahakoshal Chamber of Commerce, Jawaharganj, Jabalpur 482002.
Malwa Chamber of Commerce, Cloth Mkt., 77, Sitlamata Bazar, Indore 452002.
Raipur Chamber of Commerce & Industry, Sadar Bazar, Raipur 492001.

MAHARASHTRA

Bombay

All India Exporters' Chamber, Janmabhoomi Chambers, Fort St., Bombay 400001.
Belgo-Indian Chamber of Commerce & Industry, Taj Bldg., 210, Dr. D. Naoroji Rd., Bombay 400001.
Bharat Merchants' Chamber, 339, Kalbadevi Rd., Bombay 400002.
Bombay Chamber of Commerce & Industry, Mackinnon Mackenzie Bldg., B. Estate, Bombay 400038. *Pres. :* Vasant J. Sheth ; *Vice-Pres.:* K. Warner ; *Secy. :* B. P. Gunaji.
East India Chamber of Commerce Ltd., Patwa Chawl, Sheikh Memon St., Bombay 400002.
Federation of Indian Chamber of Commerce & Industry, 76, Veer Nariman Rd., Bombay 400020.
Handicraft Exports Chamber, Ganesh Bhuvan, 89A, Dadishet Agiary St., Bombay 400002.
Hindustan Chamber of Commerce, 342, Kalbadevi Rd., Bombay 400002.
Indian Merchants' Chamber, 76, Veer Nariman Rd., Bombay 400020. *Pres. :* Arvind N. Kilachand; *V. Pres. :* Shantanu N. Desai ; *Secy. :* C. L. Gheevala.
Indo-American Chamber of Commerce, 1-C, Vulcan Insurance Building, Veer Nariman Rd., Bombay 400020. *Pres. :* Harish Mahindra ; *Exec. Vice-Press. :* J. C. Gindraux, L. L. Narayan, K. R. Patel, Raunaq Singh ; *Secy.-Genl. :* Ramu Pandit.
Indo-German Chamber of Commerce, Vulcan Insurance Bldg., Veer Nariman Rd., Bombay 400020. *Pres. :* H. D. Grabenhorst ; *Vice-Pres. :* P. K. Sanyal ; *Exec. Dir. :* Dr. G. Krueger.
Iron, Steel & Hardware Merchants' & Manufacturers' Chamber of India, Loha Bhavan, P. D'Mello Rd., Bombay 400009.
Italian Chamber of Commerce for India, Vaswani Mansions, D. Vachha Rd., Bombay 400020.
Maharashtra Chamber of Commerce, 12, Rampart Row, Bombay 400023. *Pres. :* S. M. alias Babubhai Rathi ; *Vice-Press. :* M. P. Chitale, S. B. Garware, S. S. Kirloskar ; *Secy. :* R. G. Mohadikar.
Memon Chamber of Commerce, Patharia Palace, Mohamedali Rd., Bombay 400003.
Sindhi Chamber of Commerce & Industry, Garib CHS Ltd., 5th North South Rd., Bombay 400056.
Western India Chamber of Commerce Ltd., 232-234, Kalbadevi Rd., Bombay 400002.

Districts

Chamber of Commerce, Mkt. Yard, Sangli 416416.
Mahratta Chamber of Commerce & Industries, Tilak Rd., Pune 411002.
Mahavidarbha Chamber of Commerce & Industry, Vohuman Lodge, Byramji Town, Nagpur 440013.
Nagpur Chamber of Commerce Ltd., Cotton Mkt., Nagpur 440002.
Nag-Vidharbha Chamber of Commerce, Temple Rd., Civil Lines, Nagpur 440001. *Pres. :* V. D. Loya ; *Vice-Press. :* H. M. Shukla (Sr.), K. N. Sharma (Jr.) ; *Secs. :* B. K. Bagri, K. Agarwal.
Nasik District Chamber of Commerce, 986, Raviwar Peth, Nasik 422001.
Poona Merchants' Chamber, 180, Bhavani Peth, Pune 411002.
Sholapur Chamber of Commerce, Siddeshwar Mkt., W. Mangalwar Peth, Sholapur 413002.
Vidarbha Chamber of Commerce & Industry, Mangaldas Mkt., Akola 444001.

ORISSA

Banpur Chamber of Commerce, Banpur, Puri Dist.
Berhampur Chamber of Commerce, Berhampur, 760001 Ganjam Dist.
Cuttack Chamber of Commerce, Malgodown, Cuttack 753003.
Ganjam Chamber of Commerce, Berhampur 760001.
Katni Chamber of Commerce, Katni, Puri Dist.
Orissa Chamber of Commerce & Industry, Barbati Stadium, Cuttack 753001.
Puri Chamber of Commerce, Ground Rd., Puri 752001.
Rourkela Chamber of Commerce, Kacheri Rd., Rourkela 769001.
Utkal Chamber of Commerce & Industry, Cantonment Rd., Cuttack 753001.

PONDICHERRY

Chamber of Commerce, Post Box No. 26, Karikal.
Chamber de Commerce, No. 1, Rue Suffren, P. Box No. 39, Pondicherry 605001.

PUNJAB

Northern India Chamber of Commerce & Industry, Chandigarh 160017.
Punjab Federation of Industry & Commerce, Inside Hall Gate, Amritsar 143001.

RAJASTHAN

Bharatpur Chamber of Commerce & Industry, Nai Mandi, Bharatpur 321001.
Bikaner Divisional Chamber of Commerce, Woollen Press Bldg., Ind. Area, Bikaner 334001.
Chamber of Commerce, Sadar Bazar, Bundi 323001.
Chamber of Commerce, Bara Bazar, Udaipur 313001.
Chamber of Commerce & Industry, Bharatpur 321001.
Divisional Chamber of Commerce & Industry, Rampura Bazar, Kota 324006.
Jaipur Chamber of Commerce & Industry, Johari Bazar, Jaipur 302003.
Marwar Chamber of Commerce, 5, Haider Bldgs., Sojati Gate, Jodhpur 342001.
Mewar Chamber of Commerce & Industry, Mansingka House, Opp. Rly. Goods Shed, Bhilwara 311001.
Rajasthan Chamber of Commerce & Industry, Rajasthan Chamber Bhavan, M. I. Rd., Jaipur 302003. *Pres. :* Khailashanker Durlabhji ; *Sr. V. Pres. :* K. J. Bhargava ; *V. Press .:* C. M. Agarwal, Lalchand Kothari, Kirit H. Parikh, S. K. Mansinghka, Sohanlal Sogani ; *Hon. Secy. :* K. L. Jain.
United Chamber of Commerce, Sadul Memorial Marg, Bikaner 334001.

TAMIL NADU

Andhra Chamber of Commerce, 272/73, Angappa Naick St., Madras 600001.
Chamber of Commerce, Madurai Rd., Theni 626531. Madurai Dist.
Chamber of Commerce & Industry, 13, Kadiresan Koil St., Kovilpatti 627701. Tirunelveli Dist.
Chamber of Commerce & Industries, 31, Maharnonbu Agraharam, Karaikudi 623001.

Coimbatore Chamber of Commerce, Race Course Rd., Coimbatore 641018.

Erode Chamber of Commerce, 189, Sathi Rd., Erode 638001.

Hindustan Chamber of Commerce, Hindustan Chamber Bldg., 8, Kondi Chetty St., Madras 600001. *Pres. :* K. Rajgopal Chetty ; *Vice-Press. :* S. L. Nahata, H. Prakashchand Chordia, J. K. K. Munirajah, C. Sitaram; *Secy. :* G. R. Rao.

Indian Chamber of Commerce, 6/83, Avanashi Rd., Coimbatore 641018. *Pres. :* K. Sundaram ; *Hon. Secs. :* C. R. Bhaskaran, S. Jagadesan.

Indian Chamber of Commerce, 84-B, South Raja St., Tuticorin 628001.

Indian Chamber of Commerce & Industry, 23, First Line Beach, Nagapattinam 611001.

Indo-American Chamber of Commerce, C/o Chese-borough-Pond's Inc., 19, Commander-in-Chief Rd., Madras 600008.

Indo-German Chamber of Commerce, 19, Cathedral Rd., Madras 600006.

Madras Chamber of Commerce & Industry, Dare House Annexe, 3/4, Moore St., Madras 600001. *Chmn. :* M. M. Muthiah ; *V. Chmn. :* P. D. Whiteley ; *Secy. :* C. S. Krishnaswami.

Madura Ramnad Chamber of Commerce, 90-92, East Avanimoola St., Madurai 625001. *Pres. :* V. A. Balasubramaniam ; *Hon. Secs. :* S. Sundaramurti, J. D. Solanki.

National Chamber of Commerce, 169, Broadway, Madras 600001.

Potato Chamber of Commerce, Cutchery St., Mettupalayam 641301. (Coimbatore Dist.).

Pudukottai Division Chamber of Commerce, Silver Hall, Old Palace Square, Pudukottai 622001.

Rajapalayam Chamber of Commerce, Hospital Rd., Rajapalayam 626117, (Ramnad Dist.).

Salem District Chamber of Commerce, Venkata Rao Rd., Salem 636001.

Sattur Chamber of Commerce, Railway Feeder Rd., Sattur 626203. (Ramnad Dist.).

Sivakasi Chamber of Commerce 5, South Car St., Sivakasi 626123.

Sivakasi Chamber of Match Industries, 7-1-36. Swami Sannathi St., Sivakasi 626123.

South India Film Chamber of Commerce, 122, Mount Rd., Madras 600006.

South Travancore Chamber of Commerce, N. M. C. 10/377, Kumar Medical Centre Bldg., Tower Jn., Nagercoil 629001.

Southern India Chamber of Commerce, Indian Chamber Bldg., Esplanade, Madras 600001.

Tamil Chamber of Commerce, 310-311, Linghi Chetty St., Madras 600001.

Tiruchirapally District Chamber of Commerce, 77, Madura Rd., Tiruchirapalli 620008.

Tuticorin Chamber of Commerce & Industry, South Beach Rd., Tuticorin 628001.

Tuticorin-Ceylon Current Exporters' & Importers Chamber, 24, South Raja St., Tuticorin 628001.

Usilampatti Chamber of Commerce, Usilampatti. Madurai Dist.

Vellore Chamber of Commerce, 147/1, Chunnambukara St., Vellore 632001.

Vijaya Bharatha Chamber of Commerce Ltd., Virudhunagar 626004.

Virudhanagar Chamber of Commerce & Industry, P. Box 47, Virudhunagar 626001.

UTTAR PRADESH

Agra Merchants' Chamber Ltd., Bari Kothi, Belanganj, Agra 282004.

Banaras Chamber of Commerce Ltd., Biseshwarganj, Varanasi 221001.

Chamber of Commerce, Chandausi 202412.

Chamber of Commerce, Hapur 245101. Meerut Dist.

Doon Chamber of Commerce & Industry, 4, Nashvilla Rd., Dehra Dun 248001.

Eastern U. P. Chamber of Commerce & Industry, 5, Prayag St., Allahabad 211001.

Glass Bangles Merchants' Chamber, Firozabad.

Merchants' Chamber of U. P., 14/38, Civil Lines, Kanpur 208001.

Muzaffarnagar Chamber of Commerce, Muzaffarnagar, 251001.

National Chamber of Industries and Commerce, P. O. G. G. Industries, Agra 282004.

North India Chamber of Commerce & Industry, 9, Gandhi Rd., Dehra Dun 248001.

Shahjahanpur Merchant's Chamber, Carew Gunj, Shahjahanpur 242001.

Silk Merchants' Chamber of Commerce, Varanasi 221001.

Terai Merchants Chambers, Rudrapur. Nainital Dist.

Traders Chamber of Uttar Pradesh, Meston Rd., Kanpur 208001.

U. P. Chamber of Commerce, 15-197, Civil Lines, Kanpur 208001.

U. P. Chamber of Commerce & Industry, Chamber Bhavan, Opp. Govt. Roadways, Meerut 250001.

Upper India Chamber of Commerce, 14/69, Civil Lines, Kanpur 208001. *Pres. :* P. N. Mathur ; *V. Pres. :* Gulab Chand Jain ; *Ag. Secy. :* A. K. Basu.

Vijai Beopar Chamber Ltd., New Mandi, Muzaffarnagar 251001.

Western U. P. Chamber of Commerce & Industry, Bombay Bazar, Meerut Cantt. 250001.

WEST BENGAL

Andaman Chamber of Commerce, Aberdeen Bazar, Port Blair. (Andaman & Nicobar Islands).

Asansol Chamber of Commerce, 361, G.T. Rd. East, Asansol 713301.

Bengal Chamber of Commerce & Industry, Royal Exchange, Calcutta 700001. *Pres. :* A. L. Mudaliar ; *Secy. :* M. Ghose.

Bengal National Chamber of Commerce & Industry, P-11, Mission Row Extn., Calcutta 700001. *Pres. :* G. Saha ; *V. Press. :* Milan Sen, T. D. Chatterjee ; *Secy. :* A. R. Dutta Gupta.

Bharat Chamber of Commerce, 8, Old Court House St., Calcutta 700001.

Burdwan Chamber of Commerce, Sir Rash Behary Ghosh Rd., Burdwan 713101.

Eastern Chamber of Commerce, 9/21, Bijoy Garh, Calcutta 700032.

Indian Chamber of Commerce, India Exchange, India Exchange Place, Calcutta 700001. *Pres. :* D. P. Chakravarti ; *Sr. V. Pres. :* Sudhir Jalan ; *V. Pres. :* R. P. Mody ; *Secy.-Genl. :* C. S. Pande.

Indo-American Chamber of Commerce, C/o Aeicorp (P) Ltd., 10, Lall Bazar St., Calcutta 700001.

Indo-German Chamber of Commerce, Ilaco House, 30 A/B., J. Nehru Rd., Calcutta 700001.

Kalimpong Chamber of Commerce, Kalimpong 734301. Darjeeling Dist.

Merchants' Chamber of Commerce, 3/1/2, Armenian St., Calcutta 700001.

North Bengal Chamber of Commerce, Jalpaiguri 735101.

Oriental Chamber of Commerce, 6, Clive Row, Calcutta 700001.

Raniganj Chamber of Commerce, Raniganj.

COMMERCIAL FIRMS

MANUFACTURERS

ABRASIVES & GRINDING WHEELS

Delhi

Micro Abrasives India Ltd., 65, Jor Bagh, New Delhi 110003.
Shevaraj Pvt. Ltd., C-204, Defence Colony, New Delhi 110003.

Gujarat

Emery India Pvt. Ltd., P.B. 135, Jamnagar 361001.

Haryana

Indian Abrasives, 5, Ind. Area, Faridabad 121001.

Maharashtra

Abrasive Products of India, Ismail Bldg., Dr. D. Naoroji Rd., Bombay 400001.
Abrawheel Pvt. Ltd., 107, Sarang St., Bombay 400003.
Bharat Engg. Stores, 113, Nagdevi St., Bombay 400003.
Bhogilal M. Pandit & Co., 28, Apollo St., Bombay 400023.
Carborundum Universal Ltd., United India Bldgs., Sir P. Mehta Rd., Bombay 400001.
Chandrakant Shah & Co., 3, N. Dhuru Cross Lane, Bombay 400003.
Chetan Trdg. Co., 65 Sarang St., Bombay 400003.
Engg. Equipment Corpn., 40, Nagdevi Cross Lane, Bombay 400003.
Grindwell Norton Ltd., Army Navy Bldg., 148, M. Gandhi Rd., Bombay 400001.
Ind. Abrasive Co-op. Society Ltd., 163, P. D'Mello Rd., Bombay 400001.
M. Desai & Co., 163, N. Dhuru St., Bombay 400003.
Modern Machine Tools Co., 88, Nagdevi Cross Lane, Bombay 400003.
Shah Trdg. Corpn., Oomrigar Bldg., Opp. M. Phule Market, Bombay 400003.

Tamil Nadu

Carborundum Universal Ltd., 11, North Beach Rd., Madras 600001.

Uttar Pradesh

John Oakey & Mohan Ltd., Mohan Nagar, Ghaziabad 201001.

West Bengal

Krishnalal Thirani & Co. Ltd., 1, Brabourne Rd., Calcutta 700001.

ACCOUNTS & EXERCISE BOOKS

Crystal Stationery Mart, 146, A. Rehman St., Bombay 400003.
Fidvi Printing Press, 179, A. Rehman St., Bombay 400003.

ACIDS

National Chemical Corpn., B. No. 9, Devkaran Mansion, Princess St., Bombay 400002.
Navsari Oil Products Pvt. Ltd., 4, Rajan House, Opp. Century Bazar, Bombay 400025.
Nukem Corpn., Sagar Mandir, Shivaji Park, 5th Rd., Bombay 400016.
Star Chemicals (Bombay) Pvt. Ltd., 21-A, Noble Chambers, P. Bazar St., Bombay 400001.
Union Acid & Chemical Co., 88, Bapu Khote St., Bombay 400003.

ADHESIVES

Delhi

Bharat Glue Manufg. Co., 6469, Katra Baryan, Fatehpuri, Delhi 110006.
Delhi Glue & Paint Ind., Katra Baryan, Fatehpuri, Delhi 110006.

Gujarat

Neo Enterprise, 533, Padshaha's Pole, Relief Rd., Ahmedabad 380001.
Raymon Glues & Chemicals, "Kaustubh", 46-B, Gautam Nagar, Race Course Circle, Vadodara 390007.

Maharashtra

Artec Products, 212, Dwarkanath Bhavan, Kartrak Rd., Bombay 400031.
Chemisol Ind., Devkaran Mansion, 41, Princess St., Bombay 400002.
Hazarat & Co., Warden House, Sir P. Mehta Rd., Bombay 400001.
Industrial Chemicals & Adhesives, Sussex Rd., Byculla, Bombay 400027.
Industrial Electronics & Allied Products, 1423, (New) Shukrawar Peth, Pune 411002.
Mahindra Electro-Chemical Products Ltd., Bombay-Pune Rd., Pimpri, Pune 411018.
National Adhesives & Chemicals Manufrs., 611, Prasad Chambers, Near Roxy Cinema, Bombay 400004.
Pidilite Ind. Pvt. Ltd., Mafatlal House, Backbay Reclm., Bombay 400020.
Rainbow Ink & Varnish Mfg. Co. Pvt. Ltd., 133, C, Vakola Pipe Lane, Bombay 400055.
Themis Agencies, 43, M. Karve Rd., Bombay 400002.
Uniseal Ind., 41, S. Gandhi Marg, Bombay 400002.

West Bengal

Dinils Adhesives Pvt. Ltd., 8/1B, J. Mohan Ave., Calcutta 700006.
Indian Eyelets Ind., 33, N. Subash Rd., Calcutta 700001.

ADHESIVE TAPES

BDM Industries, Gama House, Gandhi Rd., Bhandup, Bombay 400078.
Tapex Corpn., Belgaum 590001.
Uniseal Industries, 41, S. Gandhi Marg, Bombay 400002.

ADDING & CALCULATING MACHINES

(See under Office Equipment).

ADDRESSING MACHINES

(See under Office Equipment).

ADVERTISING NOVELTIES

Apex Traders, 2,315, Sunder Market, Subzi Mandi, Delhi 110007.
Bhambri Plastics, D-1, R. Pratap Bagh, Delhi 110007.
Bombay Burma Plastics, Green House, Green St., Bombay 400001.
Bright Bros. Pvt. Ltd., 156-A, J. Dadajee Rd., Bombay 400034.
Fidvi Printing Press, 179, A. Rehman St., Bombay 400003.
Jai Hind Leather Products, 60, Broadway, Madras 600001.

Janata Book Manufg. Co., 219 A. Rehman St., Bombay 400003.

Jhaveri Bros. & Co. Pvt. Ltd., 348 A. Rehman St., Bombay 400003.

Mar & Co., 362, V. Patel Rd., Bombay 400004.

Metal Box Co. of India Ltd., Barlow House, 59, Chowringhee, Calcutta 700020.

Shanti Plastic Works, Prasad Chambers, Bombay 400004.

Speed-O-Speak (India), 7, New Queens Rd., Bombay 400004.

Vinyl Processors, Ratnavali, 1st Gouthan Lane, Bombay 400054.

T. Alimahomed & Co., 144-46, Sarang St., Bombay 400003.

AERATING MACHINES

Esoofaly Mohamedaly & Co., 102/4, Sarang St., Bombay 400003.

Rajaram Bhiku & Sons, New Prabhadevi Rd., Bombay 400025.

T. Alimahomed & Co. 144-46, Sarang St. Bombay 400003.

AERIAL ROPEWAY

Dass Hitachi Pvt. Ltd., 21-A, Janpath (Windsor Place), New Delhi 110001.

Jessop & Co. Ltd., 63, N. Subash Rd., Calcutta 700001.

AGARBATTIS

(See under Perfumes and Agarbattis.)

AGRICULTURAL IMPLEMENTS

Andhra Pradesh

Hyderabad Iron & Steel Works, Ind. Area, Hyderabad 500018.

Jyothi Ind., C-31, Ind. Estate, Sanatnagar, Hyderabad 500018.

Krishi Engines Ltd., A-7 Unit, Sanatnagar, Hyderabad 500018.

South India Motor Manufg. Co. Pvt. Ltd., Nacharam Ind. Estate, Hyderabad 500039.

Swastik Manufrs. Ltd., 128 M. Gandhi Rd., Secunderabad 500003.

Bihar

Arthur Butler & Co. Ltd., Muzaffarpur 842001.

Dhiman & Co. Pvt. Ltd., Station Rd., Patna 800001.

Linkers Pvt. Ltd., Jamal Rd., Patna 800001.

Tata Iron & Steel Co. Ltd., Jamshedpur 831001.

Delhi

Bali & Co. Pvt. Ltd., Najafgarh Rd., New Delhi 110015.

Central Tractor Org., Pusa Rd., New Delhi 110012.

Escorts Ltd., 11, Scindia House, Connaught Circus, New Delhi 110001.

Gupta Iron and Brass Works Pvt. Ltd., 29, Najafgarh Rd., New Delhi 110015.

Janata Steel & Metal Co-op. Ind. Soc. Ltd., 5948, Ballimaran, Delhi 110006.

Kapoor Engg. Works, B-41 & B-56, Rewari Line Ind. Area, New Delhi 110027.

Laldee Pvt. Ltd., Vijay Press Bldg., Naya Bazar, Delhi 110006.

Qualitex Mach. Pvt. Ltd., 11-6-B, Sadhu Marg, New Delhi 110005.

Raj Engg. Works Pvt. Ltd., Ajmerigate, Delhi 110006.

Shree Bharat Ind., 3 Darya Ganj, Delhi 110006.

Wilcox (Buckwell-India) Ltd., 32, Najafgarh Rd., New Delhi 110015.

Gujarat

Abdul Samad Abdul Kadar & Sons, 1839, Panchpatti, Kalupur, Ahmedabad 380001.

Agro Precision Imp. Ltd., Near I.T.I., Naroda, Ahmedabad 380001.

Bharat Techno Mechanical Ind. Ltd., Maneklal Rd., Navsari 396445.

Charotar Gramodhar Sahakar Mandali Ltd., Vallabh Vidyanagar.

Hindustan Tractors Ltd., Vishwamitri, Vadodara 390001.

Indequip Engg. Ltd., Reid Rd., Ahmedabad 380001.

Jyoti Ltd., Ind. Area, P.O. Chemical Ind., Vadodara 390003.

Sayaji Iron & Engg. Co. Ltd., Chhani Rd., Vadodara 390001.

Haryana

Haryana Steel & Alloys Ltd., 48th Km. Grand Trunk Rd., Murthal (Sonepat).

Quality Mach. (Pvt.) Ltd., Sector-6, Faridabad 121001.

Laldee Pvt. Ltd., 11, Ind. Area, Faridabad 121001.

Karnataka

Craft Tools Pvt. Ltd., Harihar.

Mysore Imp. Factory, Hassan 573201.

St. Joseph's Asylum Ind. Workshop, Jeppoo, Mangalore 575001.

Vijaykumar Ind. Works, 39, Kemmungundi Rd., Bangalore 560002.

Kerala

Brunton & Co., Engineers Ltd., Ballard Rd., Cochin 682001.

Calicut Metal Craft Pvt. Ltd., 5, Ind. Estate, Kozhikode.

Metal Ind. Ltd., Metindnagar, Shoranur.

South India Corpn. Ltd., Cochin 682002.

Madhya Pradesh

Bhandari Iron & Steel Co., Silnath Camp, Indore 452001.

Central India Iron & Steel Co., 5117, Silnath Camp, Indore 452001.

Electro Agro Ind., Arora Colony, Bhopal 462001.

Rajkumar Mills Foundry, Silnath Camp, Indore 452001.

Simplex Engg. & Foundry Works, Nagpur Rd., Jabalpur 482001.

Maharashtra

Agricultural Discs (India) Ltd., United Bank of India Bldg., Sir P. Mehta Rd., Bombay 400001.

Agro Machinex Engg. Pvt. Ltd., 3-G/2, Court Chambers, New Marine Lines, Bombay 400020.

Ajanta Farm Mach. Co., Plot A-49, 'H' Block, M.I.D.C., Pimpri, Pune 411018.

Apeejay Pvt. Ltd., 24, Baroda St., Bombay 400009.

Bajaj Steel Ind. Pvt. Ltd., Imamabad Rd., Nagpur 440001.

Bhide & Sons Pvt. Ltd., Sangli 416416.

Cooper Engg. Ltd., Chinchwad, Pune 411001.

Dattatray Ind. Pvt. Ltd., 691/A, Poona-Satara Rd., Pune 411009.

K.T. Steel Ind. Pvt. Ltd., Broach St., Bombay 400009.

Kirloskar Bros. Ltd.. Kirloskarwadi, Satara Dist.

Larsen & Toubro Ltd., L.T. House, Dougall Rd., Bombay 400038.

Maharashtra Co-op. Engg. Soc. Ltd., Shirli, Kolhapur 416001.

Prefit Ind., 198, Carnac Rd., Bombay 400002.
Saurashtra Engg. Corpn. Pvt. Ltd., 106, Bazarwad, Kurla, Bombay 400070.
Shivaji Works Ltd., Tikekarwadi, Sholapur Dist.
Voltas Ltd., 19, Graham Rd., Ballard Estate, Bombay 400038.

Orissa

Ispat Udyog, Rajrangpur.
Orissa Imp., Dolamandal Sq., Cuttack 753001.

Punjab

Aminchand Bholanath, Tanda Rd., Jullundur 144001.
Batala Machine Tools Manufrs. Co-op. Ind. Soc., Batala 143505.
Central Foundry and Workshop, Grand Trunk Rd., Batala 143505.
Daulat Ind. Corpn., Civil Lines, Ludhiana 141001.
Dharma Engg. Co., Grand Trunk Rd., Batala 143505.
Hero Engg. Works, Grand Trunk Rd., Batala 143505.
Ind. and Agricultural Pvt. Ltd., Old Railway Rd., Jullundur 144001.
Khemchand Rajkumar, Tanda Rd., Jullundur 144001.
Modern Mach. Makers, Railway Rd., Batala 143505.

Tamil Nadu

Addison & Co. Ltd., 158, Mount Rd., Madras 600002.
Engg. Accessories Pvt. Ltd., F/14, Ind. Estate, Madras 600058.
Ind. and Agri. Engg. Co. (Madras) Pvt. Ltd., 2-17, Mount Rd., Madras 600002.
Kumbakonam Co-op. Metal Works Ltd., Gandhinagar, Kumbakonam 612001.
Masseys, Nr. Rly. Terminus Rd., Madras 600013.
Marshall Sons & Co. Manufg. Pvt. Ltd., A/4, Ind. Est., Madras 600058.
Ramsar Farm Mach. Pvt. Ltd., 13/18, Periaswamy Rd., Coimbatore 641002.
Simpson & Co. Ltd., 202, Mount Rd., Madras 600002.
St. Joseph's Ind. School & Press, Coimbatore 641001.

Rajasthan

Dhunna Agri. Imp. Manufg. Co., Sriganganagar 335001.
Vishwakarma Engg., Opp. Sindhi Camp, Jaipur 302006.

Uttar Pradesh

Charan Safe Works Pvt. Ltd., 6. Ind. Estate, Kanpur 208001.
Delhi Iron & Steel Co. Ltd., Grand Trunk Rd., Ghaziabad 201001.
Forimexco Engs. Pvt. Ltd., Civil Lines, Bareilly 243001.
Hind Engg. Works Pvt. Ltd., Latouche Rd., Kanpur 208001.
Hind Trading Manufg. Pvt. Ltd., Sharma Sadan, P. Rd., Kanpur 208001.
J. K. Satoh Agri. Mach. Ltd., Kamla Tower, Kanpur 208001.
R. R. Engg. Co. Ltd., Rampur 244901.
Rohilkhand Ind. Ltd., Bareilly 243001.

West Bengal

Agri. Mach. Manufg. Corpn. Ltd., 38/1, Bosepara Lane, Calcutta 700001.
Anand Metal & Steel Works, 137, Biplabi R. B. Basu Rd., Calcutta 700001.
A. T. Mohsin & Co., 71-A, N. Subash Rd., Calcutta 700001.
Bharat Shovel Works Pvt. Ltd., 169, S. P. Banerji Rd., Calcutta 700035.
C. Comens & Sons Pvt. Ltd., 1033, Diamond Harbour Rd., Calcutta 700001.
East Zone Supply Corpn., 1, Acharya J. Bose Rd., Calcutta 700020.
Marshall Sons & Co. (India) Ltd., 33/1, N. Subash Rd., Calcutta 700001.
Metalcraft (India) Pvt. Ltd., 96, Garden Reach Rd., Calcutta 700001.
Mungpa Tractor Engg. Co. Pvt. Ltd., 425 Grand Trunk Rd., Lilooah, Howrah 711101.
Shaw Wallace & Co., 4, Bankshall St., Calcutta 700001.
Tractor & Mach. Pvt. Ltd., 25 G. Chandra Ave., Calcutta 700013.

AIR PILLOWS & AIR MATTRESSES

Bengal Waterproof Co., 32, Theatre Rd., Calcutta 700010.

AIRCONDITIONERS, REFRIGERATORS & RECTIFIERS

Andhra Pradesh

Frizair Corpn., Sanatnagar, Hyderabad 500018.
Hyderabad Allwyn Metal Works Ltd., Sanat Nagar, Hyderabad 500018.
Shriram Refrigeration Ind. Ltd., P.O. Balanagar Township, Hyderabad 500037.

Delhi

Air Frige Ind., 10/65, Kirti Nagar Ind. Area, New Delhi 110015.
Bombay Ammonia Pvt. Ltd., 1/24, Asafali Rd., New Delhi 110001.
Delhi Refrigeration Corpn., 'Sahdeva House', 3819/20, David St., Darya Ganj, Delhi 110006.
Electronics Ltd., 12-A, Connaught Place, New Delhi 110001.
Fedders-Lloyd Corpn. Pvt. Ltd., 10-1, Kalkaji Extn., New Delhi 110019.
Freeze King Ind. Pvt. Ltd., 7/17, Kirti Nagar, New Delhi 110015.
Frick (India) Ltd., Jeevan Vihar Bldg., Parliament St., New Delhi 110001.
Himalaya Manufg. & Sales Co., Park Mansion, N. Subash Marg, Delhi 110006.
Indian Refrigeration Ind., 7/15, Kirti Nagar, New Delhi 110015.
Industrial Refrigeration Corpn., B-35, South Ext. Part I, New Delhi 110049.
Industrial Refrigeration Ind. Pvt. Ltd., 8, Nizamuddin, New Delhi 110013.
Kelvinator of India Ltd., 19A, Alipore Rd., Delhi 110006.
Koolaire Pvt. Ltd., 44, Janpath, New Delhi 110001.
Lloyd Electric & Engg. Co., Punj House, M-13, Connaught Circus, New Delhi 110001.
Nath Traders (India), HS/14, Kailash Colony, New Delhi 110048.
National Refrigeration Works, 3, Subash Marg, Darya Ganj, Delhi 110006.
Virmani Refrigeration & Cold Storage Pvt. Ltd., E/2, Jhandewalan Ext., New Delhi 110055.

Gujarat

American Refrigerator Co. Ltd., Jan Saheb St., Lal Darwaja, Ahmedabad 380001.

Harynaa

Kelvinator of India Ltd., 28, New Ind. Town, Faridabad 121001.

York India Ltd., 14th Milestone, Mathura Rd., Faridabad 121001.

Usha Rectifier Corpn. (I) Ltd., 22/1, Mathura Rd., Faridabad 121001.

Karnataka

Olympus Refrigeration & Engg. Corpn. Ind. Estate, Yeyyadi, Mangalore 575001.

Steel India Pvt. Ltd., C-12, Ind. Estate, Bangalore 560010.

Maharashtra

Advanson Engg. Co., A 78, Wagle Ind. Estate, Plot A. 78, Thana 400604.

Arvind Mechanical & Electrical Engrs. Pvt. Ltd., New Sun Mill Comp., Lower Parel, Bombay 400013.

Batliboi & Co. Pvt. Ltd., Bharat House, Apollo St., Bombay 400001.

Blue Star Ltd., Kasturi Bldg., J. Tata Rd., Bombay 400020.

Bombay Refrigerator Ind. Pvt. Ltd., 119, Bhavani Shankar Rd., Bombay 400028.

Dadajee Dhackji & Co. Pvt. Ltd., Sandhurst Bridge, Bombay 400007.

Danfoss India Ltd., M. Vissanji Rd., Bombay 400072.

Frigsales (I) Pvt. Ltd., 204, Commerce House, Medows St., Bombay 400001.

Godrej & Boyce Manufg. Co. Pvt. Ltd., Lalbaug, Bombay 400012.

Hind Rectifiers Ltd., Lake Rd., Bhandup, Bombay 400078.

I. B. Engg. Co., Deluxe Apts., Altamount Rd., Bombay 400026.

Jafkay Engg. Corpn., A 12, Marol MIDC Ind. Estate, Bombay 400059.

Khandelwal Herrmann Electronics Pvt. Ltd., 2, Rehem Mansion, 441, Colaba Causeway, Bombay 400001.

Kirloskar Pneumatic Co. Ltd., Hadapsar Ind. Estate, Pune 411013.

Larsen & Toubro Ltd., L. T. House, N. Morarji Marg, Ballard Estate, Bombay 400038.

National India Development Co., Ltd., Forjet St., Bombay 400007.

Premier Automobiles Ltd., Agra Rd., Kurla, Bombay 400070.

Sahyadari Enterprises, Haji Moosa Ind. Estate, 20, Dr. E. Moses Rd , Bombay 400011.

Spencer & Co., Spencers' House, Forjett Rd., Bombay 400036.

Steam Radiators Corpn., Amin Ind. Estate, Sonawala Cross Rd., Bombay 400063.

Thermopak Engrs. Pvt. Ltd., 21, Steelmade Ind. Estate, Marol, Bombay 400050.

Voltas Ltd., 19, Graham Rd., Ballard Estate, Bombay 400038.

Orissa

Kalinga Ind. Ltd., P. B. 31, Cuttack.

Punjab

Beegee Corpn. Pvt. Ltd., 25, Factory Area, Patiala 147002.

Tamil Nadu

Hydrogen Pvt. Ltd., 1/155, Mount Rd., Madras 600002.

Uttar Pradesh

Koolaire Pvt. Ltd., Pasonda, Ghaziabad 201001.

West Bengal

Air Conditioning Corpn. Ltd., 8/12, New Alipore Rd., Calcutta 700053.

American Refrigerator Co. Ltd., 13/C, Russel St., Calcutta 700016.

A. P. V. Engg. Co. Ltd., 2, Jessore Rd., Calcutta 700028.

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Jay Engg. Works Ltd., 183 A, P. Anvarsha Rd., Calcutta 700031.

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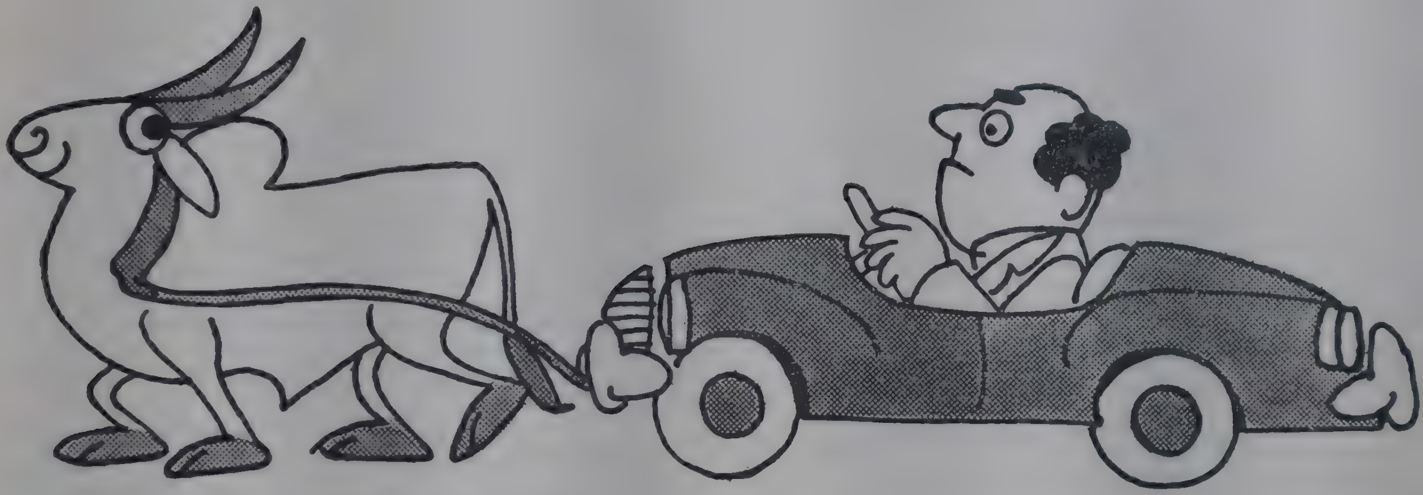

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Auto Pins India Regd., N.I.T. Faridabad 121001.
Escorts Transmissions Ltd., Faridabad 121001.
Globe Motors Ltd., 14A, Milestone, Mathura Rd., Faridabad 121001.
Injecto Pvt. Ltd., Faridabad 121001.
Jai Bharat Auto Ind., Chaura Bazar, Karnal 132001.

Karnataka

Canara Workshops Ltd., Kodialbail, Mangalore 575001.
Ideal Jawa India Pvt. Ltd., 7, Ind. Estate, Mysore 570002.
International Instruments Pvt. Ltd., 140, Hosur Rd., Bangalore 560034.
Macksons (I) 70/4, N. R. Rd., Bangalore 560002.
Motor Ind. Co. Ltd., Hosur Rd., Audugodi, Bangalore 560030.
Mysore Sheet Metal Ind., 1st Cross, Wilson Garden, Bangalore 560027.

Madhya Pradesh

Saund Zweirad Union Pvt. Ltd., Jhansi Rd., Gwalior 474001.

Maharashtra

Acme Batteries Pvt. Ltd., 16, B. Gokhale St., Bombay 400004.
Acme Manufg. Co. Ltd., Construction House, Ballard Estate, Bombay 400038.
Allied Auto Accessories Pvt. Ltd., Navsari Bldg., 240, Dr. D. Naoroji Rd., Bombay 400001.
Automat Engg. Pvt. Ltd., Aarey Rd., Goregaon East, Bombay 400063.
Automobile Products of India Ltd., Bhandup, Bombay 400078.
Automotive Corpn. (India), 431, Lamington Rd., Bombay 400004.
Automotive & Allied Ind. Pvt. Ltd., 316, V. Patel Rd., Bombay 400004.
Awon Engrs., Hamam House, 38, Hamam St., Bombay 400001.
Automobile Ancillaries of India Ltd., 31, Kandivli Ind. Estate, Bombay 400067.
Bajaj Auto Ltd., Chinchwad, Pune 411019.
Bajaj Tempo Ltd., Chinchwad, Pune 411019.
Bestamco, 94, Kadri Park, Irla, Bombay 400056.
Bharat Radiators Pvt. Ltd., S. G. Barve Marg, Kalina, Santa Cruz East, Bombay 400029.
Calama Ind. Ltd., Canada Bldg., Dr. D. Naoroji Rd., Bombay 400001.
Chandawalla Traders, Kumud Villa, 321, V. Patel Rd., Bombay 400004.
Chinkway Ind. 31-32, Bombay-Poona Rd., Dapoli, Pune 411012.
Mahindra Owen Ltd., Gateway Bldg., Apollo Bunder, Bombay 400001.
Metal Stamping Co., Plot A35, Road 10, Wagle Ind. Estate, Thana 400604.
Metalpart Manufrs., 16, Mohamedali Bldg., Mohamedal Rd., Bombay 400003.
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Consolidated Components Pvt. Ltd., 20, ABCD Govt. Ind. Estate, Kandivli, Bombay 400067.

Dee-Kay Ind., Lake Rd., Bhandup, Bombay 400078.

Echjay Ind. Pvt. Ltd., Kanjur Vill., Bhandup, Bombay 400078.

Ensign Engrs. Pvt. Ltd., Dumping Rd., Mulund West, Bombay 400080.

Evergreen Auto Ind., 322, V. Patel Rd., Bombay 400004.

Ex-cello India Ltd., 78-B, Dr. A. Besant Rd., Bombay 400018.

Fairfield Manufg. Co., Aman Chambers, 113, M. Parmanand Marg, Bombay 400004.

Fuel Injections Ltd., Vakola, Santa Cruz East, Bombay 400029.

Gabriel India Ltd., S304, L. B. Shastri Marg, Mulund, Bombay 400080.

Globe Auto Electricals Ltd., L. B. Shastri Marg, Mulund, Bombay 400080.

Globe Stores Co., Sitaram Bldg., Near Crawford Market, Dr. D. Naoroji Rd., Bombay 400001.

H. F. Higgins (Eastern) Pvt. Ltd., Janmabhoomi Chambers, Fort St., Bombay 400001.

Hindustan Ferodo Ltd., Ghatkopar, Bombay 400086.

Jayant Engg. Works, 1344, Shivajinagar, Pune 411005.

K. Raj & Co., Taher Mansion, N. Dhuru Cross Lane, Bombay 400003.

K. S. Diesels Pvt. Ltd., Bombay Mutual Chambers, 19, Hamam St., Bombay 400001.

Keeta & Co., 135, Dr. A. Besant Rd., Bombay 400018.

Kirloskar Filters Pvt. Ltd., Kothrud, Pune 411001.

Kwality Electricals, Hemprakash, 90, Kazi Syed St., Bombay 400003.

L. D. Seymore & Co. (India), Pvt. Ltd., Vulcan Ins. Bldg., V. Nariman Rd., Bombay 400001.

La Prenca Ind. Pvt. Ltd., Sonawala Cross Rd., Sonawala Estate, Goregaon East, Bombay 400063.

Mahindra & Mahindra Ltd., Gateway Bldg., Apollo Bunder, Bombay 400001.

Mungi Electricals, Technicians Block, M.I.D.C., Bhosari Ind. Area, Pune 411026.

National Auto Ind., 35-C, Govt. Ind. Estate, Kandivli, Bombay 400067.

National Automobile Co. Pvt. Ltd., Nagindas Mansions, Opera House, Bombay 400004.

New Haven Engg. Co. Pvt. Ltd., Nanjee Bldg., Horniman Circle, Bombay 400001.

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P.M.P. Auto Pvt. Ltd., 430, Lamington Rd., Bombay 400004.

Paranjpe Engg. & Foundry Co. Pvt. Ltd., E 14-15, Bhosari Ind. Area, Bhosari, Pune 411026.

Precision Components Pvt. Ltd., Andheri-Kurla Rd., Marol Naka, Bombay 400059.

Prefit Ind., 198, Carnac Rd., Bombay 400002.

Premier Automobiles Ltd., Agra Rd., Kurla, Bombay 400070.

Ramon & Demm Ltd., 79, Apollo St., Bombay 400001.

Rane Pvt. Ltd., New Queen's Rd., Bombay 400004.

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Tata Engg. & Loco. Co. Ltd., 24, Bruce St., Bombay 400023.

Teksons Pvt. Ltd., Kakad Chambers, Dr. A. Besant Rd., Bombay 400018.

Turner Hoare & Co. Ltd., Gateway Bldg., Apollo Bunder, Bombay 400001.

United Ind. of India, 82, Opera House, Girgaum Rd., Bombay 400004.

Victor Gaskets India Ltd., Mulund, Bombay 400080.

Punjab

Auto Pistons Manufg. Co. Pvt. Ltd., Batala Rd., Amritsar 143001.

Auto Valve Ind., Sirhind Rd., Patiala 147001.

Channan Singh & Sons, Abadpura, Jullundur 144001.

Criterian Ind. (India), 661/1, Pratap Nagar, Ind. Area B. Ludhiana 141001.

Emdet Engrs. Pvt. Ltd., P. O. Box 124, Amritsar 143001.

Goetze India Ltd., Patiala 147001.

Pearl Scooters, G. Trunk Rd., Ludhiana 141001.

Silver Star Axels, Civil Lines, Ludhiana 141001.

Taximeters & Equipment Ltd., Millergunj, Ludhiana 141001.

Rajasthan

Autolite of India, Mahar House, Amer Rd., Jaipur 302001.

Indo-Flex Pvt. Ltd., Tilak Rd., Jaipur 302001.

Hindustan Radiators Ltd., Station Rd., Jodhpur 342001.

Tamil Nadu

Accurate Products Corpn. Pvt. Ltd., 36, Main Rd., Velachery, Madras 600042.
Amalgamations Repco Ltd., G.N.T. Rd., Madhavaram, Madras 600060.
Ashok Leyland Ltd., Ennore, Madras 600019.
Best & Co. Pvt. Ltd., 13, N. Beach Rd., Madras 600001.
Autolec Ind., C-9, Ind. Estate, Ambattur, Madras 600058.
Bimetal Bearings Co. Pvt. Ltd., 202, Mount Rd., Madras 600001.
Carburettors Ltd., 29, Mount Rd., Madras 600002.
Chassis Frame India Ltd., 252, Mount Rd., Madras 600002.
Elgi Equipment Pvt. Ltd., India House, Trichy Rd., Coimbatore 641001.
Enfield India Ltd., Ennore, Madras 600019.
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Gears India Madras Pvt. Ltd., A24/25, Ind. Estate, Madras 600034.
Hydraulics Ltd., 29, Mount Rd., Madras 600002.
India Filters Manufrs. Pvt. Ltd., B-11, Ambattur Ind. Estate, Madras 600058.
India Pistons Ltd., Huzur Gardens, Sembiam, Madras 600011.
Indian Carburettors, K.R.S. Ind. Estate, Madras 600019.
Indian Gasket Manufg. Co., 54, W. M. Church Rd., Madras 600013.
India Radiators Ltd., 6, Armenian St., Madras 600001.
Jonas Woodhead & Sons India Ltd., 41, Thiruneermalai Rd., Madras 600044.
Lakshmi Auto Cycles Ltd., 38, Mount Rd., Madras 600006.
L. G. Balakrishnan & Bros. Pvt. Ltd., India House, Coimbatore 641001.
Lucas TVS Ltd., 10, Potullos, Madras 600002.
Mobilities Pvt. Ltd., Kuniamuthur, Coimbatore 641001.
Precision Products, C-45, Ind. Estate, Madras 600032.
Shardlow India Ltd., Huzur Gardens, Madras 600011.
Simpson & Co. Ltd., 202, Mount Rd., Madras 600002.
Standard Motor Products of India Ltd., Mount Rd., Madras 600002.
Sundaram Clayton Ltd., Padi, Madras 600050.
Sundaram Fastners Ltd., 37, Mount Rd., Madras 600002.
T. I. Diamond Chains Ltd., 11, N. Beach Rd., Madras 600001.
Unicorn Pvt. Ltd., 29, Mount Rd., Madras 600002.
Union Co. (Accessories) Pvt. Ltd., 29, Mount Rd., Madras 600001.
Universal Radiators, Avadi Rd., Madras 600053.
Upper India Bearings Ltd., 4/147, Mount Rd., Madras 600006.
Wheels India Ltd., 37, Mount Rd., Madras 600001.
Wheels & Rims Co. of India Ltd., Huzur Gardens, Madras 600010.

Uttar Pradesh

Asha Engg., Works, 26, Krishna Puri, Aligarh 202001.
Auto Ind. Ltd., M. M. Malviya Marg, Lucknow 226001.
Heavy Vehicles Factory, Kanpur, 208001.
Hindustan Ind. & Machines Manufg. Co. Ltd., Konia Kashi, Varanasi 221001.
Jain Miniature Bulb Ind., 18, A. Pokharpur, Kanpur 208001.
Luthra Radiator & Press Works Co., 23, Govt. Ind. Estate, Agra 282001.
Meghdoot Pistons Pvt. Ltd., 6, Ind. Estate, Agra 282001.
Miniature Bulb Ind., (India) Pvt. Ltd., 131, Kanwali Rd., Dehra Dun 245001.
Reinz Talbros Pvt. Ltd., 19A, Loni Ind. Estate, Ghaziabad 201001.

West Bengal

A. R. Pvt. Ltd., P-74, Bentinck St., Calcutta 700001.
Ahuja & Co., 82, Chetla Rd., Calcutta 700027.
Bharat Automobile Ind., 7, G. Chandra Ave., Calcutta 700013.
Calcutta Spring Manufg. Co., 84, Clive St., Calcutta 700001.
Coventry Spring & Engg. Co. Pvt. Ltd., 23, G. Chandra Ave, Calcutta 700013.
Duncan Bros. & Co. Ltd., 31, N. S. Chander Rd., Calcutta 700001.
Fritz & Singh Pvt. Ltd., 9, Rowdon Rd., Calcutta 700016.
Goodyear India Ltd., 225C, A. J. Bose Rd., Calcutta 700020.
Guest, Keen, Williams Ltd., 41, Chowringhee Rd., Calcutta 700001.
Henry Morgan & Co., Gupta Mansions, 71A, N. Subash Rd., Calcutta 700001.
Hindustan Motors Ltd., India Exchange Place, Calcutta 700001.
Hydrolifts & Equipment Pvt. Ltd., 10, Princep St., Calcutta 700013.
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Usha Automobile & Engg. Co. Ltd., 14, Princep St., Calcutta 700001.

Usha Telehoist Ltd., 14, Princep St., Calcutta 700013.

Veegal Engines & Engg. Ltd., 31, Chittaranjan Ave., Calcutta 700001.

Vijayshree Commercial Pvt. Ltd., 4, India Exchange Place, Calcutta 700001.

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Arya Vaidyashala, Kottakal, Kerala.

Dhootapapeshwar, Pvt. Ltd., 135, W. Desai Rd., Bombay 400004

BADGES & EMBLEMS

Amar Plastic Industries, 43, M. Karve Rd., Bombay 400002.

Excel Process Pvt. Ltd., 22-D, S. A. Brelvi St., Bombay 400001.

Nufields Gift Advertising, Unit 7, 2nd. fl., Vivek Ind. Estate, Mogul Lane, Mahim, Bombay 400016.

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Novelty Plasties, Dayalal Compound, Opp. Petrol Pump, Malad (West), Bombay 400064.

BAKING MACHINERY

Indo-Burma Petroleum Co. Ltd., Gillander House, N. Subash Rd., Calcutta 700001.

Sembhi Ind., Hoshiarpur Rd., Jullundur City 144001.

Small Machinery Manufg. Co., 22 R. G. Kar Rd., Shmabazar, Calcutta 700004.

BALL & ROLLER BEARINGS

(See Bearings — Ball, Roller, Needle in this list.)

BALL POINT PEN REFILLS

Joshi Formulabs Pvt. Ltd., 9, Lati Plot, Rajkot 360001.

Lion Pencils Pvt. Ltd., Parijat, 95, Marine Drive, Bombay 400020.

Sanghvi Swiss Refills Pvt. Ltd., Nagardas Rd., Andheri, Bombay 400069.

BARBED WIRE

(See Wire Products in this list).

BARGES (STEEL)

West Coast Lighterage Co. Pvt. Ltd., 85A, Sant Savta Marg, Mazagaon, Bombay 400010.

BARRELS & CASES — WOODEN

Cooper & Sons, D. N., 78/80, Kika St., Gulalwadi, Bombay 400004.

R. K. Enterprises, 174, Dr. D. Naoroji Rd., Bombay 400001.

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Sheet Metal Co. of India, 62, Najafgarh Rd., New Delhi 110015.

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Apurva Containers Pvt. Ltd., Navbharat Mills Compound, Narada Rd., Ahmedabad 380002.

Baroda Containers Pvt. Ltd., R.C. Rd., Vadodara 390001.

Kathiawar Metal Tin Works Ltd., Near Lati Plot, Rajkot 360001.

Karnataka

Metal Box Co. of India Ltd., Jepoo, Mangalore 575001.

Mysore Hollowares Corpn., F-62, Ind. Estate, Rajajinagar, Bangalore 560044.

Kerala

Cochin Metal & Galvanisers Ltd., Patchalon, Ernakulam 682001.

Maharashtra

Asnew Drums Pvt. Ltd., Nagindas Chambers, P. D'Mello Rd., Bombay 400001.

Bharat Barrel & Drum Manufg. Co. Pvt. Ltd., Fergusson Rd., Bombay 400013.

Bhoruka Drum & Allied Ind. Pvt. Ltd., 11-B, Wagle Estate, Thana 400604.

Bombay Drums Manufrs., Safia Manzil, 24, Calicut St., Bombay 400001.

Can Manufg. Co. Pvt. Ltd., Ind. Estate, Kandivli, Bombay 400067.

Diamond Drum & Bucket Factory, 168, Bapty Rd., Two Tanks, Bombay 400008.

Hindustan Sheet Metal Works, 41-A, Dr. E. Moses Rd., Worli, Bombay 400018.

Hydro (Engg.) Pvt. Ltd., 19, Matharpacady Rd., Bombay 400010.

Indian Metal Can Manufrs. Pvt. Ltd., 43-F, Foras Rd., Bombay 400008.

Jetha Drums & Containers Pvt. Ltd., Opp. Byculla Goods Depot, Bombay 400027.

Keena Barrels Manufg. Co. Pvt. Ltd., 92 Raviwar Peth, Pune 411002.

K. T. Kubal & Co. Pvt. Ltd., 40, R. S. Nimbkar Marg, Bombay 400008.

Pas-Products, Bahadur Manzil, 16–30, Store Lane, opp. Parsi Bazar St., Bombay 400001.

Poysha Ind. Co. Ltd., Messant Rd., Bombay 400033.

Raj Bucket Factory, 58B, M. Azad Rd., Rangwala Compound, Bombay 400011.

Saifee Bucket Factory Pvt. Ltd., 37, Sankli St., Bombay 400008.

Tayabi Bucket Factory, 174/178, Janjikar St., Bombay 400003.

Steel Containers Ltd., 149, Jackeria Bazar Rd., Bombay 400015.

Union Steel Ind., Hadapsar Ind, Estate, Pune 411013.

Punjab

Aminchand Bholanath, Tanda Rd., Jullundur 144001.

Watkins Mayor & Co., Empress Garden Rd., Jullundur 144001.

Tamil Nadu

Can Manufg. Co., 295, T. H. Rd., Madras 600021.

Chitram & Co. Pvt. Ltd., Royapuram, Madras 600013.

Madras Metal Can Manufrs., C-21-A, Ind. Estate, Madras 600058.

Uttar Pradesh

Metal Press Works Ltd., Freeganj, Agra 282001.

Northern India Iron Press Works, Aishbagh, Lucknow 226001.

West Bengal

Agarwal Hardware Ind., 1/1, Meredith St., Calcutta 700013.

Asian Ind., 9, Upper Chitpur Rd., Calcutta.

Associated Metal Ind. of India Ltd., 16, Mangoe Lane, Calcutta 700001.

Bengal Bucket & Engg. Works, 143/1/1, Cotton St., Calcutta 700007.

Bengal Ind., 23A, N. Subash Rd., Calcutta 700001.

Bharat Barrel & Drum Manufg. Co., 2, Garstin Place, Calcutta 700001.

Bhalotia Metal Mfg. Co. 2, D. Jain Temple Rd., Calcutta 700007.

Bharat Steel Metal Ind. Ltd., 36 A & B, Pratapaditya Rd., Calcutta 700026.

Calcutta Iron & Engg. Co. Pvt. Ltd., 48, Canning St., Calcutta 700001.

Containers & Closures Ltd., 4, Fairlie Place, Calcutta 700001.

Containers (India) Ltd., 18, C. C. Ghosh Rd., Balgachia, Calcutta 700037.

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Laxmi Trdg. Co., 192, J. Bajaj St., Calcutta 700007.

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Roy-Singha Engg. Works, 639, Diamond Harbour Rd., Behala, Calcutta 700034.

Simplex Engg. & Foundry Works, 3A, Garstin Place, Calcutta 700001.

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Maharashtra

Estrella Batteries Ltd., Yusuf Bldg., V. Nariman Rd., Bombay 400001.

Crompton Greaves Ltd., 1, Forbes St., Bombay 400001.

Tamil Nadu

Indo National Ltd., 30, General Patter's Rd., Madras 600002.

Uttar Pradesh

Geep Flashlight Ind. Ltd., 28, South Rd., Allahabad 211001.

West Bengal

Associated Battery Makers Eastern Ltd., 59 C, Chowringhee, Calcutta 700020.

Flash Lights India Pvt. Ltd., 135, Princep St., Calcutta 700001.

Graphite India Ltd., 14, N. Subash Rd., Calcutta 700001.

National Carbon Co. India Ltd., 18 A, Brabourne Rd., Calcutta 700001.

Saxby Farmer India Pvt. Ltd., Entally, Calcutta 700014.

Union Carbide India Ltd., 1-3, Brabourne Rd., Calcutta 700001.

BATTERIES—STORAGE

Andhra Pradesh

Auto Globe Batteries, Old Malkapet, Hyderabad 500001.

Bihar

Bihar Storage Battery Co., Station Rd., Ranchi 834001.

Delhi

Acme Batteries Pvt. Ltd., Grand Trunk Rd., Delhi 110032.

Battery Separators Pvt. Ltd., 1671, Kashmere Gate, Delhi 110006.

Globe Engg. Corpn., 2547, Rajguru Rd., Pahar Ganj, New Delhi 110055.

India Battery Separators Co., Pataudi House, Delhi 110006.

Leela Separators Pvt. Ltd., 153, Ind. Estate, New Delhi 110020.

Sahni Bros. (India), H/34, Connaught Circus, New Delhi 110001.

Spartan Batteries, 1651, S. P. Mukherji Marg, Delhi 110006.

Super Batteries, 2291/16, Arya Samaj Rd., Karol Bagh, New Delhi 110005.

Gujarat

Abdul Samad Abdul Kader & Co., Kalupur, Ahmedabad 380001.

Anand Engg. Works, 2, Kevdawadi, Rajkot 360001.

Autobat Batteries Pvt. Ltd., Ratan Talao, Nadiad 387001.

Bansi Ind. Corpn., Raghunathpura, Surat 395001.

Everest Ind. Corpn. Pvt. Ltd., Pratapnagar, Vadodara 390001.

Jyoti Ltd., Chemical Ind., P.O. Vadodara 390001.

Navinchandra Engg. Works, 44, Bharatkhand Cotton Mills Comp., Naroda Rd., Ahmedabad 380009.

Haryana

Amar Batteries India Ltd., Ind. Area, Faridabad 121001.

Karnataka

Amco Batteries Ltd., Unity Bldgs., Narasimharaja Sq., Bangalore 560002.

Mysore Electro Chemical Works Ltd., 6th Cross Rd., Bangalore 560022.

Maharashtra

Bower Battery Manufg. Co. Pvt. Ltd., 54, S. Vivekanand Rd., Goregaon, Bombay 400062.

Estrella Batteries Ltd., Plot No. 1, Dharavi Rd., Matunga, Bombay 400019.

Excel Battery Ind., Sonawala Cross Rd., Bombay 400063.

Himco India Pvt. Ltd., Kondivita, Kurla Rd., Bombay 400069.

Lucas Indian Service Pvt. Ltd., 15, New Queen's Rd., Bombay 400004.

Premier Auto Electric Pvt., Ltd., 69, Tardeo Rd., Bombay 400034.

Rita Battery Manufg. Co., Deccan Gym., Pune 411004.

Ruby Battery Corpn. Pvt. Ltd., 31, French Rd., Chowpatty, Bombay 400007.

Shakti Batteries, 95, D. S. Phalke Rd., Dadar, Bombay 400014.

Standard Batteries Ltd., Vakola, Santa Cruz East, Bombay 400055.

Sunlite Batteries & Carbons Ltd., 12, Champa Gully Cross Lane, Mulji Jetha Bldg., Bombay 400002.

Super Power Batteries India Pvt. Ltd., New Queen's Rd., Bombay 400004.

Union Battery Corpn., 10, Naval Kunj, Agra Rd., Bombay 400077.

Western Battery Corpn., 108, Bazar Ward, Kurla, Bombay 400070.

Winner Batteries, 7, Udyog Nagar, S. Vivekanand Rd., Goregaon West, Bombay 400062.

Zenith Batteries Manufg. Co., 1204, Nanapeth, Pune 411002.

Orissa

Spark Battery Manufg. Co. Ltd., Ind. Estate, Cuttack 753001.

Punjab

Decro Batteries, Hospital Rd., Jullundur 144001.

Rajasthan

Everlast Battery Manufg. Co., Imperial Rd., Ajmer 305001.

Tamil Nadu

Himco Batteries Madras Pvt. Ltd., 144, Mount Rd., Madras 600002.
Oldham & Sons Ltd., Saidapet, Madras 600001.

Uttar Pradesh

King Battery Works, 119, Grand Trunk Rd., Kanpur 208001.
Lava Batteries, 37, Ind. Estate, Kanpur 208001.

West Bengal

Accurate Power Ind., 3/1A, Barrackpore Trunk Rd., Calcutta 700002.
Associated Battery Makers Eastern Pvt. Ltd., 59 C, Chowringhee Rd., Calcutta 700001.
Battery Manufg. Cartel, 468, Calcutta Jessore Rd., Calcutta 700028.
Bharat Battery Manufg. Co. Pvt. Ltd., 238A, Acharya J. C. Bose Rd., Calcutta 700020.
Calcutta Storage Battery Co. Pvt. Ltd., P-1-A, Rashbehari Ave., Calcutta 700001.
Chloride India Ltd., Exide House, 59E, Chowringhee Rd., Calcutta 700020.
Desapriya Auto Works, 115, Bidhan Sarani, Calcutta 700004.
Electrical Storage Co. Pvt. Ltd., Narkeldanga Main Rd., Calcutta 700001.
Eastern Battery Ind., 1-B, Paul St., Calcutta 700004.
General Lead Batteries Co. Pvt., 9-A, R. Mitra Lane, Calcutta 700004.
Oriental Battery Manufg. Co., Grand Trunk Rd., South Howrah 711101.
P. Kishore & Co., 132, Lenin Sarani, Calcutta 700013.
Resco Storage Batteries, 7-1, Sastitola Rd., Calcutta, 700001.
Road Light Battery Co., 74, B.T. Rd., Calcutta 700002.
Sun Battery Co., Pvt. Ltd. 166, U. C. Bannerji Rd., Calcutta 700001.
Supreme Battery Manufg. Co. Pvt. Ltd., M. Ganguly Rd., Calcutta 700002.

BATTERY CHARGERS & ELIMINATORS

Delhi

Emgee Corpn., 1543, Bhagirath Place, Chandani Chowk, Delhi 110006.
Indian Technological Products, Technological House, 21, Babar Rd., New Delhi 110001.
Intercontinental Agencies Pvt. Ltd., Atma Ram Singh Mansion, 1/21, A. Ali Rd., New Delhi 110001.
Modern Trading Co. (Delhi) Pvt. Ltd., Bush House, XI/3833, Pataudi House Rd., Daryaganj Corner, Delhi 110006.
Sham Ravindra & Co., 23, New Qutub Rd., Delhi 110006.

Karnataka

Electric Power Devices Co., Canara Mutual Bldg., 4, Residency Rd., Bangalore 560025.

Maharashtra

Flash Electronic Ind., Om Bldg., Room No. 22, 297, Lamington Rd., Bombay 400007.

Tamil Nadu

G. Janshi & Co., 2/163, Mount Rd., Madras 600002.

West Bengal

Metro Ind. Works, 94, B. Ghose Rd., Calcutta 700040.
Santon Electronics, 12C, Suren Sarkar Rd., Calcutta 700010.

BEARINGS — BALL, ROLLER & NEEDLE

Andhra Pradesh

Indo-Nippon Precision Bearings Ltd., Moula Ali, Hyderabad 500001.

Delhi

Hind Electronic Ind., 69, Najafgarh Rd., New Delhi 110015.

Gujarat

Precision Bearings India Ltd., P.O. Maneja, Via Vadodara.
Suessen Textile Bearings Ltd., Near Makarpura, Vadodara 390001.

Karnataka

Rollon Bearings Pvt. Ltd., 73/18 J. C. Rd., Reddy Bldg., Bangalore 560002.

Maharashtra

Antifriction Bearings Corpn. Ltd., Kakkad Chambers, 132, A. Besant Rd., Bombay 400018.
Associated Bearings Co. Ltd., M. Gandhi Memorial Bldg., N. Subash Rd., Bombay 400002.
Bearings & Bushings Corpn., 10, Anupum Ind. Estate No. 3, Opp. Raliwolf Ltd., Mulund, Bombay 400080.
Dhirajlal & Co., 15, M. Paramanand Marg, Bombay 400004.
Gleitlager (India) Pvt. Ltd., Manu Mansion, 16, Old Custom House Rd., Bombay 400001.
Machine Tools & Implements, 93/95, N. Dhuru St., Bombay 400003.
Masrani Mill Gin Stores, 46, Nagdevi Cross Lane, Bombay 400003.
Needle Roller Bearing Co. Ltd., B-16, Road No. 2, Waglewadi (Ind. Area), Thana 400604.

CHLORIDE INDIA LIMITED

Exide House, 59E, Chowringhee Road,
Calcutta 700 020.
Telephone : 448326. Grams : " CHLORIDIC ".

Manufacturers of :
Exide Batteries for :
Aircrafts, Motor Cars, Motor Cycles, Scooters, Radio Receivers and Miners' Cap-Lamps.

Exide Heavy Duty Batteries for :
Trucks, Buses and Diesel Locomotives.

Exide Iron-clad cells for :
Train Lighting, Electric Cars, Mining Locomotives, Forklifts, Trucks etc.

Chloride Stationary cells for :
Telephone Exchanges, P & T Equipment, Switch Tripping and Closing, Emergency Lighting etc.

Exide Portable cells for :
Railway Signalling and Technical Laboratories.

Bearings for all use

Contact :

General Bearing And Engineering Company

Head Office : 10, Canning Street,
Calcutta 700 001.

●

Sales Office :
138, Canning Street, Post Box No. 2374,
Calcutta 700 001.

●

Phones :
Office : 22-9738, 22-1004
Godown : 34-0503
Res.: 35-6629

Importers & Stockists of :

BALL, ROLLER, THRUST & TAPER, ROLLER, BEARING etc.

New Haven Steel Ball Corpn. Pvt. Ltd., Pandyan House, Frere Rd., Bombay 400001.
Precision Bearings (I) Ltd., Nirmal, Backbay Recl., Nariman Point, Bombay 400021.
Safe Ball Bearing Corpn., Nagdevi Cross Lane, Bombay 400003.
Shah Brothers, 524, Sandhurst Rd., Bombay 400004.
Universal Bearings Co. Pvt. Ltd., 11, Temple View, Hughes Rd., Bombay 400007.

Rajasthan

National Engineering Ind. Ltd., Jaipur 302001.

Tamil Nadu

Coimbatore Pioneer Engg. Co. Ltd., Pioneer Mills Rd., Coimbatore 641001.
Upper India Bearings Pvt. Ltd., A-23, Ind. Estate, Madras 600032.

West Bengal

Ambica Mill Stores, 138, Canning St., Calcutta 700001.
Damain Enterprises, 138, Canning St., Calcutta 700001.
General Bearing and Engg. Co., 10, Canning St., Calcutta 700001.
Shriram Bearings Ltd., 3A, Shakespeare Sarani, Calcutta 700016.

BELTING

Misgo–Engineers, 281/5, Delhi Rd., Meerut 250002.
Lewis & Taylor Pvt. Ltd., Ilaco House, Sir P. Mehta Rd., Bombay 400001.
Rostron & Co. Pvt. Ltd., 10, Govt. Place East, Calcutta 700001.

BICYCLES

Bihar

Hindustan Vehicles Ltd., Hasan Imam Rd., Patna 800001.

Delhi

A. K. Cycle Ind., Dilshad Garden, Delhi 110032.
Hitkari Bros. of Delhi, 9, Faiz Bazar, Delhi 110006.
H. R. Bhalla & Sons Pvt. Ltd., 3, Faiz Bazar, Delhi 110006.
Imperial Technical Works, K78 Hauz Khas, Delhi 110016.
Jai Bharat Engg. Co-op. Ind. Society Ltd., 29-15, New Rohtak Rd., New Delhi 110005.
Matchless Ind. of India, 8-A, Esplanade Rd., Delhi 110006.
New Era Engg. Co., 26, D.L.F. Ind. Colony, New Delhi 110015.
Pearl Cycle Ind. Ltd., N.D.S.E. Part I, New Delhi 110049.
Raj Cycle Works, 16-2044, Gurudwara Rd., New Delhi 110005.
Road King Cycle Co., 47-A, Esplanade Rd., Delhi 110006.
Road King Cycle Ind., 17-9, New Rohtak Rd., New Delhi 110005.
Uttam Cycle Works, 408, Esplanade Rd., Delhi 110006.
Zenith Cycle Ind., 9, N. S. Marg, Delhi 110006.

Haryana

Wearwell Cycle Co. (I). Ltd., Faridabad 121001.

Kerala

Bharat Cycle Ind., Vadakevilla, Quilon 691001.

Madhya Pradesh

Central Cycle Ind., Bhagirathpura, Indore 452001.

Maharashtra

Commercial Engg. Works, Ghat Rd., Nagpur 440001.
Hind Cycles Ltd., Worli, Bombay 400018.
M. D. Cycle Ind. Pvt. Ltd., 69/B Hadapsar Ind. Estate, Pune 411013.
Saaza Bicycle Ind. (I.) Ltd., Camp, Amravati 444601.

Orissa

Utkal Cycle Manufg. Co. Pvt. Ltd., B-5, Ind. Estate, Cuttack 753001.

Punjab

Anand Rubber & Cycle Ind., Anand Bldg., Kapurthala 144601.
Asian Cycle Ind., Millerganj, Ludhiana 141001.
Atlas Cycle Ind. Ltd., Sonepat 131001.
Avon Cycles Ltd., Ind. Area, Ludhiana 141001.
Bicycle Manufg. Co-op. Ind. Society Ltd., Ludhiana 141001.
Chawla Cycle Ind., Railway Rd., Jullundur 144001.
Hero Cycle Ind., Millerganj, Ludhiana 141001.
Nilibar Cycle Ind., Millerganj, Ludhiana 141001.
Road Master Ind. of India Ltd., Rajpura.
Rockman Cycle Ind., 730, Ind. Area-B, Ludhiana 141001.
Super Cycle & Allied Ind., 3, Gill Rd., Ludhiana 141001.
Vishwa Karma Mechanical Engg. Foundry, Phagwara.

Rajasthan

Chandra Ind., 86, Gopal Bari, Jaipur 302001.

Tamil Nadu

Govt. Cycle Assembly Unit, Thanjavoor 613001.
Rajasekar Ind., C-46, Ind. Estate, Madras 600032.
Rapid Ind., Rapidnagar, Kovvur.
T. I. Cycles of India Ltd., 11-12, North Beach Rd., Madras 600001.

Uttar Pradesh

Continental Cycle Ind., 40, D. S. Marg, Lucknow 226001.
Eastern Cycle Ind., 42, Ind. Estate, Kanpur 208001.

Gopal Metal Works, Aish Bagh Rd., Lucknow 226001.

Metal Goods Manufg. Co. Pvt. Ltd., Vidyapith Rd., Varanasi 221001.

Pioneer Ind., Alopibagh, Allahabad 211001.

Popular Cycle Manufg. Co. Pvt. Ltd., Bodla, Agra 282001.

Prakash Engg. Co., Aishbagh, Lucknow 226001.

Rampur Engg. Co. Ltd., Rampur 244901.

Steel Sons Pvt. Ltd., Govindpuri, Modinagar.

West Bengal

B. S. Cycle Ind., K. Bhattacharjee Lane, Santragachi, Howrah 711101.

Eagle Cycles Ltd., 3, New Tangra Rd., Calcutta 700015.

International Engg. Co., 17, R. A. Kidwai Rd., Calcutta 700013.

Jodhpur Engg. Works, R. N. Das Rd., Calcutta.

Sen-Raleigh Ind. of India Ltd., Mercantile Bldg., Lalbazar St., Calcutta 700001.

BICYCLE ACCESSORIES & PARTS

Andhra Pradesh

Deccan Cycle & Allied Ind., 720 Bank St., Hyderabad 500001.

Delhi Farm & Tricycle Manufg. Co., 14, Begum Bazar, Hyderabad 500001.

Government Bicycle Parts Factory, Ind. Estate, Vijayawada 520001.

Delhi

Balkan Ind. India Ltd., Esplanade Rd., Delhi 110006.

Cycle Equipment Pvt. Ltd., 8, Kalkaji, New Delhi 110019.

Freewheels India Ltd., New Asiatic Bldg., Connaught Circus, New Delhi 110001.

Hansraj Gupta & Co. Pvt. Ltd., Ajmeri Gate, Delhi 110006.

Hindustan Cycle Accessories Manufg. Co., Rampura Rd., P.O. Ganeshpura, Delhi 110033.

Laldee Pvt. Ltd., Vijay Press Bldg., Naya Bazar, Delhi 110006.

Margo Ind. India, Old Rohtak Rd., New Delhi 110005.

Pearl Cycle Ind. Ltd., Kashmere Gate, Delhi 110006.

Pearl Roller Chain Manufg. Co., Najafgarh Rd., New Delhi 110015.

Racmann Koshatkinn (Regd.), 53, Ind. Area, Najafgarh Rd., New Delhi 110015.

Reliance Cycle Works Pvt. Ltd., 36, Okhla Ind. Area, New Delhi 110020.

Road Master Ind. of India Pvt. Ltd., 2, Flagstaff Rd., Delhi 110006.

Super Tyres Pvt. Ltd., 74, Najafgarh Rd., New Delhi 110015.

Gujarat

Ahmedabad Star Engg. Works Pvt. Ltd., 1730, Haribhai Dehla, Outside Premgate, Ahmedabad 380011.

Bharat Casements Pvt. Ltd., P.B. 89, Vadodara 390001.

Bicycle Manufg. Ind. Pvt. Ltd., Ind. Area, Vadodara 390001.

Haryana

Atlas Cycle Ind. Ltd., Sonepat 131001.

Forgings Pvt. Ltd., Mathura Rd., Faridabad 121001.

Goodyear India Ltd., Ballabhgarh.

Janata Cycle Ind., Ind. Area, Panipat 132103.

Milton Cycle Ind. Ltd., 2/114, Jeewan Nagar, Sonepat 131001.

Packson Freewheels India Ltd., Faridabad 121001.

Villers Freewheel Licence India Ltd., Faridabad 121001.

Kerala

Alleppey Cycle Manufg. Workers Ind. Co-op. Society Ltd., Alleppy 688001.

Kerala Govt. Cycle Rim Factory, Sankumugam.

Venu Engg. & Foundry Pvt. Ltd., Nemom.

Madhya Pradesh

Govt. Cycle Factory, Guna 473001.

Road Star Cycle Ind., Jawahar Nagar, Gwalior 474001.

Rockhard Tyre & Rubber Ind., 73, Ind. Estate, Indore 452001.

Maharashtra

Bedrock Tyre & Rubber Co., 16, Bruce St., Bombay 400001.

Cosmos India Rubber Works Ltd., 7, Homji St., Bombay 400001.

Delta Spokes Manufg. Co., Dharamchand Ind. Estate, Deonar, Bombay 400088.

Hamilton Ind. Pvt. Ltd., Tulsi Pipe Rd., Bombay 400013.

Hind Cycles Ltd., Worli, Bombay 400018.

Lumala Ind. Pvt. Ltd., Prasad Chambers, Opera House, Bombay 400004.

M. D. Cycle Ind. Pvt. Ltd., 69-B, Hadapsar Ind. Estate, Pune 411013.

New Haven Steel Ball Corpn. Pvt. Ltd., Pandyan Bldg., P. D'Mello Rd., Bombay 400001.

Noble Cycle & Motor Co., 425, Dr. D. Naoroji Rd., Bombay 400001.

Simetalls Pvt. Ltd., Govt. Gate Rd., Bombay 400012.

Transmission Pvt. Ltd., Bhandup, Bombay 400078.

Punjab

Aasvan Cycle Ind., Ind. Area, Jullundur 144001.

Arun Ind. Ltd., State Bank Colony, Amritsar 143001.

B. S. C. Cycles Pvt. Ltd., 12-R, Ind. Area, Ludhiana 141001.

Birdi Bros., 447, Ind. Area-B, Ludhiana 141001.

Delco Engg. Works, 193, Ind. Area B, Ludhiana 141001.

Freedom Ind., Hide Market, Amritsar 143001.

J. P. Cycle Ind., Millargunj, Ludhiana 141001.

Jaibharat Cycle Ind., Circular Rd., Jullundur 144001.

Loomba Cycle Works, 190, Ind. Area B., Ludhiana 141001.

Public Cycle Works, 1, Millergunj, Ludhiana 141001.

Ralson Ind., 810, Ind. Area B, Ludhiana 141001.

Steelco Ind., Tanda Rd., Jullundur 144001.

Tamil Nadu

Associated Engg. Enterprises, A-1, Ind. Estate, Madras 600058.

L. G. Balkrishna & Bros., Pvt. Ltd., India House, Trichy Rd., Coimbatore 641001.

Pioneer Cycle Ind. India Pvt. Ltd., Tiruvottiyur High Rd., Madras 600019.

Pondy Cycle Parts Manufrs., Pondicherry 605001.

T. I. Miller Ltd., Ambattur, Madras 600058.

Tube Investments of India Ltd., 11, North Beach Rd., Madras 600001.

Wheel Rim Co. of India Pvt. Ltd., Sembiam, Madras 600011.

Uttar Pradesh

Agarwal Cycle Rickshaw Manufg. Co., Motikatra, Agra 282001.

Bharat Ind. Corpn. Ltd., R. K. Nagar, Kanpur 208001.
Bright Cycle Ind., 78B, G. B. Marg, Lucknow 226001.
Metal Goods Manufg. Co. Pvt. Ltd., Vidyapeeth Rd., Varanasi 221001.
Navyug Cycle & Allied Ind., Grand Trunk Rd., Ghaziabad 201001.
Oakfield Cycle Ind., 39-11, Meston Rd., Kanpur 208001.
Speedage Cycle Components, 16, Ind. Estate, Kanpur 208001.

West Bengal

Ancillary Ind. Forgings Pvt. Ltd., Ind. Estate, Kalyani, 741235.
Bharat Cycle Manufg. Co., 18, R. M. Dutta Rd., Calcutta 700020.
Bicycle Components Pvt. Ltd., 11, Bediadanga Rd., Calcutta 700039.
Dunlop India Ltd., 57-B, Free School St., Calcutta 700001.
Dwarka Ind. Development Pvt. Ltd., 14, Canal St., Calcutta 700014.
Eagle Cycles Ltd., 3, New Tangra Rd., Calcutta 700015.
Eagle Metal Products Pvt. Ltd., 83, Ballygunge Place, Calcutta 700029.
Hillman Ind. Pvt. Ltd., 3, Bentinck St., Calcutta 700001.
Indian Union Manufrs. Ltd., 190, Rashbehari Ave., Calcutta 700020.
Indo-Japanese Ind. Ltd., 14, Canal St., Calcutta 700014.
Polymold Pvt. Ltd., Ind. Estate, Kalyani 741235.
R. B. S. Jain Rubber Mills Pvt. Ltd., Lillooah, Howrah 711101.
R. K. Cycle Ind. Pvt. Ltd., 80, Lower Circular Rd., Calcutta 700014.
Republic Engg. Corpn. Ltd., 16, B. C. Roy Rd., Calcutta 700034.
Sen & Pandit Ltd., Mercantile Bldg., Lalbazar, Calcutta 700001.
Sen Raleigh Ind. of India Ltd., Mercantile Bldg., Lalbazar, Calcutta 700001.

BIDIS

Andhra Pradesh

Engine Mark Bidi Factory, Sitaphal Mandi, Hyderabad 500001.
Heeralal Prabhuram Beedi Factory, Gajulpet, Nizamabad 503001.
Kohinoor & Dunia Beedi Factory, R. N. Road, Hyderabad 500002.
Shashi Beedi Factory, Dichpalli, Nizamabad Dist.
Tara Mark Beedi Factory, Uthkoor, Mahbubnagar Dist.
Thakur Savadekar & Co., Beedi Factory, Nizamabad 503001.
Watch Mark Beedi Factory, Metpalli, Karimnagar Dist.
Wattan Mark Beedi Factory, Marthad, Nizamabad Dist.

Gujarat

Asal Phul Chhap Bidi Factory, Santh Pilli, Nadiad 384001.
Gordhandas Bidi Factory, Station Rd., Vadodara 390001.
Jethabhai Ambalal Vyas Bidi Factory, Umeta, Kaira Dist.
Karim Bidi Factory, Little Gate, Ahmedabad 380001.
Patel Umedbhai Mathurabhai Bidi Factory, Palej.
Ramniklal Jayantilal Gandhi, Station Rd., Thasra.
Shivaji Bidi Works, Borsad.
Thakkar Tarachand Dayal & Co., Bidi Factory, Patan.

Karnataka

Amrit Beedi Factory, Ranibennur, Dharwar Dist.
Bharat Beedi Works, Karkal, S. Kanara Dist.
Bharatmatha Beedi Factory, Ranenpur, Hubli 580020.
Chand Tara Beedi Factory, Yadgir, Gulbarga Dist.
Darbar Beedi Factory, Dalalpeth, Nipani, Belgaum Dist.
Elephant Circus Beedi Factory, Alampur, Raichur Dist.
Engine Mark Beedi Factory, Yadgir, Gulbarga Dist.
Kasim Ali Beedi Factory, Gulbarga 585101.
Malabar Krishna Beedi Factory, Tumkur 572101.
Mangalore Ganesh Beedi Works, Hampankatta, Mangalore 575001.
Mohini Beedi Works, Udipi, S. Kanara Dist.
Prakash Beedi Works, Car St., Mangalore 575001.
P.V.S. Beedi Ltd., Kodialbail, Mangalore 575003.
Thakur Savadekar & Co. Pvt. Ltd., Gulbarga 585101.
Vazir Sultan Tobacco Co. Ltd., Alampur, Raichur Dist.

Kerala

Cannanore Beedi Workers Ind. Co-op. Society Ltd., Madan Bldg., Gopal St., Cannanore 670001.
Kerala Beedi Factory, Chalakudy.
Mangalore Ganesh Beedi Works, Kakkat, Cannanore 670001.
M.S.M. Saliheen Sahib & Brothers, Koduvayur, Palghat 678001.
M. S. Photo Beedi Co., Ollur, Trichur 680001.
P.V.S. Beedies Ltd., Cannanore 670001.
Ring Mark Beedi Co., Main Rd., Ottapalam 679101.
Salim Darbar Beedi Factory, Chalakudy.
Union Beedi Factory, Mananghat, Palghat 678001.

Madhya Pradesh

Aulia Beedi Factory, Burhanpur.
Badshahi Bidi Works, Modai Bhata, M. Gandhi Rd., Raipur 492001.
Bhimraj Sunderlal Bidi Factory, Kanker, Bastar.
Chunilal Chedilal Kanthal Bidi Factory, Narsingpur.
C. J. Patel & Co., Bidi Factory, Karrapur, Sagar Dist.
Jaswantlal Prahladbhai & Co., Bidi Factory, Hindor, Damoh 470661.
Jordan Bidi Factory Khargone 451001.
Kishorilal Roshanlal Bidi Factory, Kharsia, Raigarh 496001.
Maganlal Dajibhai Bidi Factory, Bagora, Raigarh 496001.
Mohanlal Hargovindas Bidi Factory, Maihar, Satna Dist.
Mohanlal Harprasad Agarwal Bidi Factory, Shahadol 489001.
P. D. & Co., Bidi Factory, Kankar, Bastar.
Prabhulal Patiram & Co., Bidi Factory, Gole Bazar, Raipur 492001.
Thakur Savadekar Bidi Factory, Ajhas.
Tulsibhai Govardhanbhai Beedi Factory, Rewa 486001.
Udhavji Shri Krishandas Bidi Factory, Rewa 486001.
Vrajlal Manilal & Co., Bidi Factory, Rajnandgaon.

Maharashtra

Bastiram Narayandas Maheshri Bidi Factory, Mangalpur, Sangamner, Ahmednagar Dist.
Bhikusa Co., M. Gandhi Rd., Dhulia 424001.
Bhikusa Yamasa Kshatriya Pvt. Ltd., 42, Guruwar Peth, Pune 411002.
Budhmal Ratanlal Taki Bidi Factory, Pokhari, Ahmednagar Dist.
Camel Brand Bidi Factory, No. 1560 Sinnar, Nasik 422001.
Chandratara Bidi Works, 7/8, Bhudhwar, Sholapur 413001.

Charaka Chhap Bidi Factory, Nandgaon, Nasik Dist.
Charbhai Bidi Works, 570, Sachapir St., Pune 411001.
Chhokra Chhap Bidi Works, 3587, Raul Gali, Sholapur 413001.
Cock Brand Bidi Factory, 5160/61, Mangalwar Peth, Ahmednagar 414001.
Jaiprakash Sudhir Pvt. Ltd., Bidi Factory, 3166, Bhagwanpura, Nasik 422001.
Karim Bidi Factory, House No. M-2, Dhulia 424001.
Lal Ghoda Bidi Works, 10, Murarji Peth, Sholapur 413001.
M. M. Pathan Bidi Factory, Newasa, Ahmednagar Dist. 414001.
Mukhtar Ahmed Mohammed Hanif Bidi Factory, Dhulia 424001.
Patel Bidi Works, 6-A, Bhawanipeth, Sholapur 413001.
Patel Brothers, 118, M. Gandhi Rd., Pune 411001.
Phono Bidi Factory, Sawada, Jalgaon Dist.
Rajanikant Chotalal Bidi Factory, Dharangaon, Jalgaon Dist.
Sable Waghire & Co., Bhawanipeth, Pune 411002.
Sambar Chhap Bidi Factory, Bazar Peth, Newasa, Ahmednagar Dist.
Sholapur Bidi Works, 305, Jodbhavi Peth, Sholapur 413001.
Thakur Savadekar & Co. Pvt. Ltd., 377, Guruwar Peth, Pune 411002.
Vishwanath Balwant Vaidya Bidi Factory, Akola, Ahmednagar Dist.
Yeola Bhandari Bidi Works, Sabreshwar Rd., Yeola, Nasik Dist.

Orissa

Babaji & Motibhai Bidi Factory, Bhalupari, Sambalpur Dist.
Bengali Bidi Works, Bhalkunda, Sason, Sambhalpur Dist.
Bidi Trading Co., Ainathpali, Sambalpur 768001.
Deshbandhu Bidi Karkhana, Phatak, Sambalpur 768001.
Hindustan Bidi Works, Nayapara, Sambalpur 768001.
Mangal Bidi Works, Coly Para, Jharsuguda, Sambalpur Dist.
Saheb Bidi Factory, Padampur, Selepur, Cuttack Dist.
Temple Bidi Workshop, Marwaripara, Sambalpur Dist.

BISCUITS

Andhra Pradesh

J. B. Mangharam & Co., Tank Bund, Hyderabad 500001.
Shalimar Biscuits Pvt. Ltd., Ind. Estate, Uppal, Hyderabad 500039.

Bihar

Lucky Biscuit Co., Hajiganj, Patna 800001.

Delhi

Britannia Biscuit Co. Ltd., 33, Lawrence Rd., Delhi 110035.

Karnataka

Azad Ind., Azad House, Jeppu, Mangalore 575001.
Mangharam & Sons, Tumkur Rd., Bangalore 560022.
National Products, 135, Kaval Byrasandra, Bangalore 560006.

Kerala

Kohinoor Biscuit Factory, Ernakulam.

Madhya Pradesh

Arya Confectionery Works, 111, Ind. Estate, Indore 452003.
J. B. Mangharam & Co., Pvt. Ltd., P.O. Residency, Gwalior 474001.
Rashtriya Confectionery Works, D-48, Fort, Ind. Estate, Indore 452002.

Maharashtra

B. N. Biscuit & Confectionery Works, Hathibaugh, Love Lane, Mazagon, Bombay 400010.
Britannia Biscuit Co. Ltd., Reay Rd., East, Mazagon, Bombay 400010.
Huns Dewan & Co., 158, M. Azad Rd., Bombay 400008.
Parle Products Pvt. Ltd., Belvandi House, 254-B, Dr. A. Besant Rd., Bombay 400025.
Renown Biscuit Co., Sussex Rd., Cross Lane, Byculla, Bombay 400027.
Sathe Biscuit & Chocolate Co. Ltd., 820, Bhawani Peth, Pune 411002.
Shalimar Biscuits Pvt. Ltd., Sun Mill Estate, Lower Parle, Bombay 400013.
Shangrila Food Products Ltd., 60, Great Social Bldg., Sir P. Mehta Rd., Bombay 400001.

Punjab

Dalima Biscuit Pvt. Ltd.. Rajpura.
Rieta Biscuit Co. Pvt. Ltd., Factory Area, Patiala 147001.

Tamil Nadu

Britannia Biscuit Co. Ltd., M.T.H. Rd., Padi, Madras 600050.
Dollar Food Corpn., 49, Kathirvedu Pozhal Post, Madras 600066.

Uttar Pradesh

Annapurna Biscuit Manufg. Co., 84/67, G. Trunk Rd., Kanpur.
Kaka Biscuits Manufg. Co., 108/131, Gopal Talkies, Sisamau Bazar, Kanpur 208001.
Sind Biscuits Manufg. Co., 104/A/333, Ram Bagh, Kanpur 208001.
Unichem Laboratories Ltd., C-32, Ind. Area, Meerut Rd., Ghaziabad 201001.

West Bengal

Britannia Biscuit Co. Ltd., 15, Taratola Rd., New Alipore, Calcutta 700053.
Kusum Products Ltd., Bombay Mutual Bldg., 9, Brabourne Rd., Calcutta 700001.
Lily Biscuit Co. Pvt. Ltd., 3, R. K. Sen Lane, Calcutta 700004.
Santosh Biscuit Co. Pvt. Ltd., 179A, Manicktola Main Rd., Calcutta 700054.

BISCUIT MAKING PLANTS

Baker Perkins Exparts Ltd., 6 Doongersy Rd., Malabar Hill, Bombay 400006.
Larsen & Toubro Ltd., L & T House, Ballard Estate, Bombay 400038.
Sembhi Industries, Hoshiarpur Rd., Jullundur, 144001.

BLADES

Blades—Hacksaw & Bandsaw

Crescent Iron & Steel Corpn. Ltd., Industrial Estate, Lalbaug, Bombay 400012.
Garlick & Co. Pvt. Ltd., Haines Road, Bombay 400011.
Harbanslal Malhotra & Sons Pvt. Ltd., 12, New C.I.T. Rd., Calcutta 700012.
Jackson Saw Manufg. Co. Pvt. Ltd., 18, N. Subash Rd., Calcutta 700001.

Laldee Pvt. Ltd., Vijay Press Bldg., Naya Bazar, Delhi 110006.

Machitex Engg. Products, Behind Ajit Mills, Rakhial Rd., Ahmedabad 380023.

S. S. Miranda Pvt. Ltd., Ashoknagar, Kandivli, Bombay 400067.

Blades — Safety

Centron Industrial Alliance Pvt. Ltd., Ind. Assurance Bldg., Opp. Churchgate Station, Bombay 400020.

Edalji Kerawalla & Co., Baria Bldg., opp. Crawford Market, Bombay 400003.

Escorts Ltd., Pratap Bldg., Connaught Place, New Delhi 110001.

Harbanslal Malhotra & Sons Pvt. Ltd., New C.I.T. Rd., Calcutta 700012.

Hind Razor & Blade Co. Ltd., Ind. Assurance Bldg., Churchgate, Bombay 400001.

National Razors & Blades Ltd., 4, Dalhousie Sq. East, Calcutta 700001.

Sharpedge Ltd., 34, Okhla Ind. Estate, New Delhi 110020.

Spencer & Co. Ltd., Mount Rd., Madras 600001.

Blades — Shears, knives

Bombay Alloy Steel Ind. Pvt. Ltd., 87, Nagdevi Cross Lane, Bombay 400003.

R. S. Traders, 16, Khorshed Bldg., Sir P. Mehta Rd., Bombay 400001.

Zenith Steel Pipes Ltd., Moti Mahal, 195, Churchgate Recl. Bombay 400020.

BOATS & MOTOR LAUNCHES

Rocklite Fibre Glass Industries, C-8 Wagle Ind. Est., Thana 400604.

Tufflite Plastics Pvt. Ltd., P. Box 849, Coimbatore 641004.

BOILERS

Andhra Pradesh

Bharat Heavy Plate & Vessels Ltd., Visakhapatnam 530001.

Bihar

Tata Engg. & Locomotive Co. Ltd., Jamshedpur 831001.

Gujarat

Maroden Spinning & Manufg. Co. (India) Ltd., Rakhial Rd., (Engg. Division), Ahmedabad 380021.

SLM-Maneklal Ind., Vatwa, Ahmedabad 380021.

Haryana

Saraswati Ind. Syndicate Ltd., Yamuna Nagar.

Maharashtra

Acme Engg. & Allied Products Pvt. Ltd., 3-15, V. Savarkar Marg, Bombay 400028.

B. R. Herman & Mohatta (India) Pvt. Ltd., Mustafa Bldg., Sir P. Mehta Rd., Bombay 400001.

Eastern Textiles, 75, Apollo St., Bombay 400001.

Industrial & Agricultural Engg. Co. (Bombay) Pvt. Ltd., 43, Forbes St., Bombay 400001.

ISGEC John Thompson Ltd., Great Social Bldg., Sir P. Mehta Rd., Bombay 400001.

Jignesh Metal Manufg. Co., Subash Nagar, Asian Chemical Compound, Jogeshwari (East), Bombay 400060.

Nestler Boilers Pvt. Ltd., Love Lane, Cross Lane, Byculla, Bombay 400027.

New Standard Engg. Co. Ltd., NSE Estate, Goregaon, (East), Bombay 400063.

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Nirmal Tdg. Corpn., 289/91, Nagdevi St., Bombay 400003.

Saurashtra Engg. Corpn. Pvt. Ltd., 106-7, Bazar Ward, Khetani Ind. Estate, Bombay 400070.

Shapuria Dock & Steel Pvt. Ltd., Sewree Fort Rd., Bombay 400015.

Shubh Engg. Corpn., 15, Bank St., Bombay 400001.

Steel Plant Pvt. Ltd., 205, Dr. A. Besant Rd., Bombay 400018.

Tube Tools & Hardware Mart, 94, Nagdevi St., Bombay 400003.

Tube — Weld Engg. Works, 115, P. D'Mello Rd., Bombay 400009.

Varsha Boilers Pvt. Ltd., Green House, Green St., Bombay 400001.

Walchandnagar Ind. Ltd., Walchandnagar, Poona Dist.

Wanson (India) Pvt. Ltd., MIDC Plot No. 13, Chinchwad, Pune 411019.

Westerwork Engrs. Pvt. Ltd., 15, Bhandup Village Rd., Bombay 400078.

Orissa

Utkal Machinery Ltd., Rourkela 769001.

Punjab

Leader Engg. Works, Ind. Area, Jullundur 144001.

Tamil Nadu

Jeeyer & Co., Trichy Rd., Coimbatore 641001.

K.C.P. Ltd., 38, Mount Rd., Madras 600006.

West Bengal

ACC-Vickers-Babcock Ltd., Durgapur 713206.

Garden Reach Workshops Ltd., 43/46, Garden Reach Rd., Calcutta 700024.

Industrial Mineral & Mill Stores Traders, Mercantile Bldg., Lall Bazar, Calcutta 700001.

J. Stone & Co. (India) Pvt. Ltd., 16, Tartolla Rd., Calcutta 700027.

Jessop & Co. Ltd., 63, N. Subash Rd., Calcutta 700001.

MacNeill & Barry Ltd., 2, Fairlie Place, Calcutta 700001.

Marshall Sons & Co. (India) Ltd., 33, N. Subash Rd., Calcutta 700001.

Thapar Steinmuller Boiler Co. Ltd., 25, Brabourne Rd., Calcutta 700001.

BOILER LAGGINGS

Lloyd Insulations (India), 6, Middleton St., Calcutta 700016.

BOLTS & NUTS

Avdel (I) Ltd., 409, Himalaya House, Palton Rd., Bombay 400001.

Baria Tube & Hardware Mart, 110 N. Dhuru St., Bombay 400003.

Bolting Manufg. Co., Mehra Ind. Estate, Andheri-Kurla Rd., Bombay 400072.

Free India Metal Products, 48, Sarang St., Bombay 400003.

Indian Button Factory, 58, Digvijaya Plot, Jamnagar.

Maharashtra Hardware Stores, 94, Sarang St., Bombay 400003.

Mohanlal & Co., 144, Lohar St., Diamond Bldg., Bombay 400002.

S. Mohanlal & Co., Tawawala Bldg., 34, Pathakwadi, Bombay 400003.

BOTTLING MACHINERY

Indo-Burma Petroleum Co. Ltd., Gillander House, N. Subash Rd., Calcutta 700001.

Larsen & Toubro Ltd., L & T House, Ballard Estate Bombay 400038.

BOX STRAPPINGS

Caristrap Ltd., Eros Bldg., 124, M. Karve Rd., Churchgate, Bombay 400020.

J. K. Steel Ind. Ltd., 2, Mangoe Lane, Calcutta 700001.

Maharashtra Plastic Ind., Subash Nagar, Off. Caves Rd., Jogeshwari (East), Bombay 400060.

R. J. Steel & Co., 505, Steel Centre, Iron Market, Bombay 400009.

Sareen Steel Ind., 23, A, N. Subash Rd., Calcutta 700001.

BRAIDING MACHINES

Todi Ind. Pvt. Ltd., Todi Estates, Lower Parel, Bombay 400013.

BRASS & STEEL COMPONENTS

Industrial Brass Components Corpn., B-27, Udyog mandal, Jamnagar 361001.

BRICK-MAKING PLANTS

Andrew Yule & Co. Pvt. Ltd., 32 Nicol Rd., Ballard Estate, Bombay 400038.

Canara Workshops Ltd., P. Box No. 12, Mangalore 575003.

Corporated Engrs. India Ltd., Chittaranjan Ave., Calcutta 700001.

Kathiawar Metal & Steel Works Pvt. Ltd., Lati Plot, Near City Stn., Rajkot 360001.

National India Engg. Co. Pvt. Ltd., 7, Horniman Circle, Bombay 400001.

BRICKS & TILES

Acme Tiles Manufg. Co., 494, Duncan Rd., Bombay 400004.

Ajay Tiles, 1205, R. B. Apte Rd., Pune 400004.

Ajugia Tiles Co., Ghodbunder Rd., Malad West, Bombay 400064.

Ashok Tiles Co., Nehru Nagar, Nanji Harilal Chawl, Dombivali East, Dist. Thana.

Bharat Tiles & Marble Co. Pvt. Ltd., 32, Apollo St., Fort, Bombay 400001.

Cauveri Brick Works, 77, Madura Rd., Tiruchirapalli. 620008.

Deepak Tiles Ind. Pvt. Ltd., B-2/10, Samruddi Housing Society, Off B. Shanker Rd., Dadar, Bombay 400028.

Duncan Stone Co., 500, M. Azad Rd., Bombay 400004.

Jashvant C. Shah & Co., Bharati Nivas, Besant Rd., Santacruz West, Bombay 400054.

Himalayan Tiles & Marble Pvt. Ltd., 17-19, Dalal St., Fort, Bombay 400001.

Indiana Tiles & Marble Corpn., 4, Amboli Rd., Andheri West, Bombay 400058.

Jay Tiles Ind., Behind Tejpal Pvt. Ltd., Kurla-Andheri Rd., Sakinaka, Bombay 400072.

Liberty Tiles & Marble Co., 8/10, Green St., Fort, Bombay 400001.

Maha Gujarat Tiles & Marble Co., Panch Kuva, Opp. English Cinema, Ahmedabad.

National Tiles & Ind. Pvt. Ltd., 31, Hamam St., Above Dena Bank, Bombay 400001.

New India Mosaic & Marble Co. Pvt. Ltd., Ind. Estate, Lalbaug, Bombay 400002.

Niteo Tiles Pvt. Ltd., G-5, Court Chambers, New Marine Lines, Bombay 400020.
N. M. Mehta & Co., 4/10, Old Custom House Rd., Bombay 400001.
Raju Tiles & Marble Ind., Ambernath Rd., Ulhasnagar 421003, Dist. Thana.
Raval & Co., 21, Bank St., Fort, Bombay 400001.
Tara Tiles, P. B. 201, Shahupuri, Kolhapur 416001.

BRIGHT STEEL BARS ETC.

Delhi

H. R. Gupte Ind., 27/56, Punjabi Bagh, New Delhi, 110026.

Gujarat

Bright Bar Manufg. Co., M. Gandhi Rd., Bharuch.
Precision Bright Steel Ind., 696, Reid Rd., Ahmedabad 380001.

Karnataka

Bipsi Blades & Turners Pvt. Ltd., 59, Ind. Suburb, Yeshwantpur, Bangalore 560022.

Maharashtra

Akhandanand Engg. & Trdg. Co., Datta Mandir Rd., Off Bhandup Village, Bombay 400078.
B. P. Steel Ind. Pvt. Ltd., Mysore Chemical Comp., 39/44, Sion East, Bombay 400022.
Bright Bar Manufg. Co., 401, Cotton Exchange Bldg., Kalbadevi Rd., Bombay 400002.
Chase Bright Steel Ltd., Meher Chambers, Nicol Rd., Ballard Estate, Bombay 400038.
Ever Bright Steel Ind., 39, Sindhi Lane, Bombay 400004.
Hercules Bright Steel Pvt. Ltd., 86, Mint Rd., Bombay 400001.
India Tubes Mills & Metal Ind. Pvt. Ltd., Dhiraj Chambers, 9, Waudby Rd., Bombay 400001.
Indian Bright Steel Co. Ltd., Meher Chambers, Nicol Rd., Ballard Estate, Bombay 400038.
Industrial Engg. Co., 45, Maharashtra Bank Bldg., Apollo St., Bombay 400001.
Kaykay Janack Wires, 101, Steel Chambers, Broach St., Bombay 400009.
Mehta Engg. Works, 405, Loha Bhavan, P. D'Mello Rd., Bombay 400009.
Perfect Bright Steel Ind., 39, Sindhi Lane, Bombay 400004.
Pratap Bright Steels Pvt. Ltd., 51, Advent, 12A, Foreshore Rd., Bombay 400021.
Ram Engg. Works, 57, Second Bhoiwada, Bhuleshwar, Bombay 400002.
Shah Patel & Co., 111, Nagdevi St., Bombay 400003.

Punjab

Hindustan Steel Ind., Rakson House, 43-R, Ind. Area B, Ludhiana 141001.

West Bengal

Bhartia Commercial Co. Ltd., B-1, Gillanders House, 8, N. Subash Rd., Calcutta 700001.
Bagri Steel Ind. (Pvt.) Ltd., 138, B. R. B. Basu Rd., Calcutta 700001.
Damehra Steels & Forgings Pvt. Ltd., 89, N. Subash Rd., Calcutta 700001.
Guest Keen Williams Ltd., 97, Andul Rd., Howrah 711003.
Prakash Steel Products, 234, G. Trunk Rd., (North) Howrah 711007.

BRUSHES

Army Brush Factory, 457, Sadar Bazar, Delhi 110006.
Aryan Brush Co. Ltd., Lentin Chambers, Dalal St., Bombay 400001.
Baroda Brushware Co., Behind Rly. Stn., Vadodara 390005.
Climax Brush Works, 123, Amherst St., Calcutta 700009.
Datson Raviraj & Co. Pvt. Ltd., 43, Tamarind Lane, Bombay 400001.
Dey Bros., 23, Biplabi R. B. Bose Rd., Calcutta 700001.
E. A. Currim Pvt. Ltd., 97, Apollo St., Bombay 400001.

BUCKETS

(See Barrels, Buckets, Drums, Steel Containers etc. in this list).

BUILDERS HARDWARE

Nasik Industrial Engineering Corpn., Rav Nivas, Panchavati, Nasik 422003.
Saifee Tube & Hardware Mart, 85, Mohamedali Rd., Bombay 400003.
Win-Arts Industries, 89, Bhajipala St., Bombay 400003.
(Also see "Construction Materials" in this list).

BUILDING MATERIALS

(See Construction Materials in this list).

BUS-TRUCK BODY BUILDERS

Andhra Pradesh

Hyderabad Allwyn Metal Works Ltd., Sanatnagar, Hyderabad 500018.

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Shri Ramdas Motor Transport Pvt. Ltd., Subash Rd., Kakinada 533001.

Bihar

Tata Engg. & Loco. Co. Ltd., Jamshedpur 831001.

Delhi

Anand Automobiles, P. O. Usuf Sarai, New Delhi 110016.

Karnataka

Canara Workshops Ltd., Kodiabad, Mangalore 575001.
M. G. Automobiles, Patelnagar, Bellary 583101.

Maharashtra

Abdul Husain M. Alabuxji, Itwari, Nagpur 440002.
India Body Builders, 62, B. Shanker Cross Rd., Bombay 400054.
Jafferbhai & Co., 106-1 8, 1. Rahimtulla Rd., Bombay 400003.
Jayanand Khira & Co. Pvt. Ltd., S. Vivekanand Rd., Bombay 400054.
Mahindra & Mahindra Ltd., Gateway Bldg., Apollo Bunder, Bombay 400001.
Premier Automobiles Ltd., L. B. Shastri Marg, Bombay 400070.
Ruby Coach Builders Pvt. Ltd., 75, Dr. A. Besant Rd., Bombay 400018.
Sah & Sanghi, Giri Kunj, 11C, N. S. Patkar Marg, Bombay 400007.

Rajasthan

Kamal & Co., Ismail Rd., Jaipur 302001.

Tamil Nadu

Kutty & Rao (Engrs.) Ltd., Rustom Mahal, 2nd Line Beach, Madras 600001.
L. G. Balkrishnan & Bros. Pvt. Ltd., P.O. Ganapathy, Coimbatore 641001.
Simpson & Co. Ltd., 202, Mount Rd., Madras 600002.
Sundaram Ind. Pvt. Ltd., Ind. Estate, Madurai 625001.

West Bengal

Chopra Motors, 139, Regent Park, Calcutta 700040.
French Motor Car Co. Ltd., 234/3, L. Circular Rd., Calcutta 700020.

CALCULATORS—POCKET SIZE

U. M S. Radio Factory Pvt. Ltd., Coimbatore 641001.

CALCULATORS—TABLE SIZE

(Also see Office Equipment).
Superior Electronic Systems, E-13, Dattatraya Society, Deonarpada Rd., Bombay 400088.

CALENDERS

Vinay Calender Co., 104, A. Dady St., Bombay 400004.

CAMPHOR

Camphor & Allied Products Pvt. Ltd., Jehangir Bldg., 133, M. Gandhi Rd., Bombay 400001.

CAMPING EQUIPMENT

Goyalka Bros., P-4, New Howrah Bridge Approach Rd., Nandram Market, Calcutta 700007.
Soobash & Co., 12, Zakaria St., Calcutta 700001.

CAN SEAMING MACHINES

Atlas Works Ltd., 119 Ripon St., Calcutta 700016.
Metal Box Co. of India Ltd., Chowringhee, Calcutta 700020.

CANDLE-MAKING MACHINES

Jayendra Metal Ind. Ltd., Shastriwada, opp. College, Sayajigunj, Vadodara 390005.

CAPACITORS—ELECTRICAL

Delhi

Crescent Capacitors, S-51, Janta Market, Rajouri Garden, New Delhi 110027.

Gujarat

Baroda Electronics Ind. Pvt. Ltd., 78, Chhani Rd., Vadodara 390002.
Yesha Electricals Pvt. Ltd., 54 Alkapuri, Vadodara 390005.

Maharashtra

Asian Electronics Ltd., Handloom House, 221, Dr. D. Naoroji Rd., Fort, Bombay 400001.
Gannon Electrolytics Ltd., Chartered Bank Bldg., M. Gandhi Rd., Fort, Bombay 400001.
Kemi Electro Traders, Unit-21, Prem Ind. Estate, Subash Rd., Jogeshwari (East), Bombay 400060.
Serson Ind. Pvt. Ltd., P.O. Pimpri, Pune 411018.

West Bengal

Chowdhury Ind. Corpn. Pvt. Ltd., 6, Middleton St., Calcutta 700016.
India Capacitors Ltd., 49/1 Gariahat Rd., Calcutta 700019.

CAPSULES—GELATINE

Associated Capsules Pvt. Ltd., 131, Kandivli Ind. Estate, Bombay 400067.
Capsules Products, F. 14/58 Model Town, Delhi 110009.
Capsulation Services Pvt. Ltd., Sion Trombay Rd., Chembur, Bombay 400071.
Gelikeps Pvt. Ltd., P.O. Atladar, Vadodara Dist.
Pharmaceutical Capsules Laboratory, Brahman Sabha Bldg., Underia Cross Rd., Bombay 400064.
Seamless Capsules Pvt. Ltd., 81, Andheri Kurla Rd., Bombay 400059.

CARBON BLOCKS & BRUSHES

Assam Carbon Products, Gauhati 781001.
Dikson & Co., 8 Bharat House, Apollo St., Bombay 400001.
Moba Carbon Pvt. Ltd., 48, Wodehouse Rd., Bombay 400005.

CARBONS—CINEMA ARC

Best & Co. Pvt. Ltd., 13/15, North Beach Rd., Madras 600001.
R. J. Wood Co. Pvt. Ltd., State Bank Bldg., Chandani Chowks, Delhi 110006.
Union Carbide (India) Ltd., 1, Middleton St., Calcutta 700016.

CARDBOARD BOXES

Bangalore

Everest Container Corpn., Ind. Suburbs, Yeshwantpur, Bangalore 560022.

Bombay

Babson Paper Box Factory, 17, Dhobi St., Bombay 400003.
Everest Packaging Corpn., Mahakali Caves Ltd , Andheri East, Bombay 400069.
Krishna Box Factory, 1, A-Z, Ind. Estato, Lower Parel, Bombay 400013.

Delhi

Everest Corrugating Ind., 63, Jhandewalan Extn., New Delhi 110055.

Calcutta

Ads & Prints (1963), 5, M. Chatterjee Lane, Calcutta 700007.

Antool, S. & Co. Pvt. Ltd., 91, Acharya P. Chandra Rd., Calcutta 700009.

Arun Corrugating & Packaging Ind., 36, Brabourne Rd., Calcutta 700001.

Associated Packaging Ind., 37, Canning St., Calcutta 700001.

Bengal Paper Tube & Box Manufg. Co., 18, Park St., Calcutta 700016.

Board & Paper Converters, 152/6, Salkia School Rd., Howrah 711101.

British Packaging Ind., 3, Portuguese Church St., Calcutta 700001.

Calcutta Paper Ind., 121, Chittaranjan Ave., Calcutta 700007.

Cardboard Box Manufg. Co., 41, Chowranghee Rd., Calcutta 700016.

Cardboard Materials & Printing Co. Pvt. Ltd., 7, Convent Rd., Calcutta 700014.

Cardboard & Paper Products Co., 44, Lockgate Rd., Calcutta 700002.

Central Card Board Box Manufg., Co., 25, Dr. K. Bose St., Calcutta 700009.

Central Trdg. Co., 25, Waterloo St., Calcutta 700001.

Great Bengal Card Board, 40/B, J. Mitra St., Calcutta 700005.

Impex Corpn., 23/J, R. M. Dutta Garden Lane, Calcutta 700010.

Kajaria Chemipaper Pvt. Ltd., 28, Amratolla St., Calcutta 700001.

Krishna Cardboard Box Manufg. Co., 58, S. Sarkar Rd, Calcutta 700010.

Leonard Card-Board Box Factory Pvt. Ltd., 1/1, Galiff St., Calcutta 700003.

Packaging & Printing Ind., 1, British Indian St., Calcutta 700001.

Profulla Box Manufg. Co. Pvt. Ltd., 80/2, Baitakhana Rd., Calcutta 700009.

Standard Box Co., 6, A. Banerji Lane, Calcutta 700020.

Swastik Box Manufg. Co., 36G, Sitalatala Lane, Narikeldanga, Calcutta 700011.

Technocrafts (India), 56, N. Subash Rd., Calcutta 700001.

Traders Syndicate, 58/1, M. Raja Dinendra St., Calcutta 700006.

Union Packaging Ind., 5, Burroshibtolla Main Rd., Calcutta 700038.

Universal Cardboard Box Factory, 54, Ezra St., Calcutta 700001.

CARDBOARD BOX MAKING MACHINERY

Micro Mechanichal Works, L. B. Shastri Marg, Vikhroli, Bombay 400083.

CARPETS

Delhi

Bharat Carpets (Pvt.) Ltd., 28-B, Connaught Place, New Delhi 110001.

The East India Carpet Co. (Pvt.) Ltd., Connaught Place, New Delhi 110001.

Jammu & Kashmir

East India Carpet Co. (Pvt.) Ltd., Srinagar 190001.

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Tel.: 582818.

Hadow & Co., C. M. Srinagar 190001.

Oriental Carpet Factroy, Shiring Bagh, Srinagar 190001.

The Sheikh Co., P.O. Box 83, Srinagar 190001.

Karnataka

Narasimhaiya's Carpet Factory, Kengeri, Bangalore 560001.

Shamiah & Sons, M. B., 49, Sourashtrapet, Bangalore 560002.

Madhya Pradesh

East India Carpet Co. (Pvt.) Ltd., Maharani Laxmibai Rd., Gwalior 474001.

Maharashtra

Tripathi & Co., Tripathi Chambers, 245, Bazargate St., Bombay 400001.

Punjab

Model Woollen & Silk Mills, Grover Estate, Verka, Amritsar 143001.

Oriental Carpet Manufrs. (India) Pvt. Ltd., Amritsar 143001.

Tamil Nadu

Chellarams (Madras), 86, Wallajah Rd., Madras 600002.

Uttar Pradesh

Abbas & Co., M. Khamaria, Varanasi Dist.

Abbas Wazir (Pvt.) Ltd., New Bazar, Bhadohi, Varanasi Dist.

Akhtaruzzaman & Bros., Imlaha St., Mirzapur 231001.

Bhadohi Textile Ind. (Pvt.) Ltd., Bhadohi, Varanasi Dist.

Carpet Co-op. Federation Ltd., Station Rd., Bhadohi, Varanasi Dist.

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Hill & Co., (Pvt.) Ltd., E., Railway Station, Mirzapur 231001.

Kailas Carpet Co., Dholpur House, Agra 282001.

Mahabir Prasad & Co., Main Rd., Bhadohi, Varanasi Dist.

Mills & Mines (Pvt.) Ltd., Gopaldas Rd., Mirzapur 231001.

Obeetee (Pvt.) Ltd., Bhariaghat, Mirzapur 231001.

Quality Marked Woollen Carpet Manufacturers Co-op., Assn. Ltd., Gopaldas Rd., Mirzapur 231001.

Samad Carpets (Pvt.) Ltd., Samad Buildings, Bhadohi, Varanasi Dist.

Shilpi, Laldiggi, Mirzapur 231001.

West Bengal

Birla Jute Manufg. Co. Ltd., 15, India Exchange Place, Calcutta 700001.

Shroff's Carpets, 12, J. Nehru Rd., Calcutta 700013.

CASEIN & CASEINATES

D. Doshi & Co., 111, Wadala Udyog Bhavan, Bombay 400031.

CAST IRON PIPES

Baroda Rolling Mills Pvt. Ltd., Chhani Rd., Vadodera 390001.

CASTINGS

Castings—Die

A. T. Gooyee Metal Works Pvt. Ltd., 1, Mall Rd., Dum Dum, Calcutta 700028.

Alcast Foundry Pvt. Ltd., 138-41, Govt. Ind. Estate, Kandivli, Bombay 400067.

Amkay Die Casting Ind., Latif House, Iron Market, Bombay 400009.

Ashok Pressure Castings Pvt. Ltd., 24-A, V. Narayaan Rd., Madras 600017.

Auto Parts Die Casting Ind. Pvt. Ltd., Natwari House, A. Rehman St., Bombay 400003.

Die Cast Ind. Pvt. Ltd., 23-24, Radha Bazar St., Calcutta 700001.

Ferrodie Ltd., Wagle Ind. Estate, Thana 400061.

Mysore Precision Die Casting Pvt. Ltd., Tumkur Rd., Bangalore 560022.

Northern India Die Casting Corpn., Ind. Estate, Jammu 180001.

Precast Engg. Pvt. Ltd., Ashoknagar, Kandivli East, Bombay 400067.

Siraj Die Casting Factory, Rd., No. 16, Thana 400601.

Usha Die Casting Pvt. Ltd., D-2, Defence Colony, New Delhi 110003.

Vishwakarma Tin Factory, 11, B.M.C. Ind. Estate, Bapty Rd., West, Bombay 400008.

Yojana Udyog Pvt. Ltd., 325, Kalbadevi Rd., Bombay 400002.

Castings—Malleable

Amit Products Ltd., Behind Arbuda Mills, Rakhial Rd., Ahmedabad 380021.

Aminchand Payarelal, Tanda Rd., Jullundur City 144001.

Andhra Sugars Ltd., Tanuku, W. Godavari.

Bihar Malleable Casting Ltd., 16, Hare St., Calcutta 700001.

Bombay Malleable Iron Casting & Allied Ind. Ltd., Neelam, Worli Sea Face, Bombay 400018.

Cochin Malleable (Pvt.) Ltd., Trichur 680001.

Gayday Iron and Steel Co. Ltd., 25, Ganeshchander Ave., Calcutta 700013.

Globe Steel Ltd., Ballabhgarh, Haryana.

Hindustan Malleables and Forgings Ltd., Jalan House, Jharia 828111.

Hindustan Steel Ltd., (Govt. Undertaking), Ranchi 834001.

Indian Iron & Steel Co. Ltd., 12, Mission Row, Calcutta 700001.

Indian Malleable Castings Ltd., 4, Lyons Range, Calcutta 700001.

Indian Smelting & Refining Co. Ltd., 156, J. Tata Rd., Bombay 400020.

Jessop & Co. Ltd., 63, N. Subash Rd., Calcutta 700001.

Malleable Iron and Steel Casting Co. Ltd., Tulsipipe Rd., Bombay 400013.

Metro Melleable Manufrs. Ltd., Mysore Rd., Bangalore 560026.

Mukund Iron & Steel Works Ltd., Agra Rd., Kurla, Bombay 400070.

Nitin Castings Pvt. Ltd., Eastern Express Highway, Thana 400601 Maharashtra.

Patnaik Ind. Pvt. Ltd., New Capital, Bhubaneshwar 751001.

Pearlistic Iron Castings & Engg. Works, Dr. R. Prasad Rd., Mulund, Bombay 400080.

Phillips Volkarts Pvt. Ltd., 8B, Lalbazar St., Calcutta 700001.

Shah Malleable Casting Ltd., Ashok Chambers, Broach St., Bombay 400009.

Tubes & Malleables Ltd., 99, Armenian St., Madras 600001.

Castings—Non-Ferrous Metal, Alloys, Brass

Andhra Pradesh

Allied Manufrs. Ind., C-16, Ind. Estate, Sanatnagar, Hyderabad 500018.

Bihar

Bihar National Engg. Works, Sunder Flour Mills Bldg., Upper Bazar, Ranchi 834001.
Kejriwal Ind. Corpn., Bank Rd., Muzaffarpur 842001.
Ranchi Non-Ferrous Metal Ind., Upper Bazar, Ranchi 834001.

Delhi

Chadha Ind. (India), 4 D.L.F. Ind. Area, Najafgarh Rd., New Delhi 110015.

Gujarat

Anil Brass Foundry, 55, Dig. Plot, Jamnagar 361001.
Amrit Vijay Brass Casting Works, Nr. Kumbharwada, Jamnagar 361001.
Dodhia Brass Moulding Works, Oswal Ice Comp., Jamnagar 361001.
Famous Brass Moulding Works, A-3, Udyognagar, Shankar Tekri, Jamnagar 361001.
J. K. Brass & Plastic, Opp. City Bus Control, Jamnagar 361001.
Jatin Casting Works, A-20, Udyognagar, Jamnagar 361001.
Khira Foundry & Engg. Works, Patel Colony, Jamnagar 361001.
Mansukh Brass Moulding Works, Nalvall Bay, Jamnagar 361001.
Modi Brass Moulding Works, A-17, Udyognagar, Jamnagar 361001.
Parking Engg. Corpn., 107, Ind. Estate, Silvassa, Via Vapi
Pathik Ind., Sukhramnagar, Ahmedabad 380021.
Piyush Brass Casting, A-5, Udyognagar, Jamnagar 361001.
Shri Shakti Foundry, Shankar Tekri, Jamnagar 361001.
Shri Supreme Moulders, Nr. Chameli Than, Jamnagar 361001.
Steelcast Bhavnagar Pvt. Ltd., Bhavnagar.

Karnataka

J.M.A. Brass Moulding Works, HMT Rd., Bangalore 560012.
Multiple Core Solders (P) Ltd., 69, Main Rd., Whitefield, Bangalore Dist.
Mysore Wire & Metal Ind., 13, 4th Cross, Magadi Rd., Bangalore 560023.

Madhya Pradesh

Jash Engg. Industries, Ind. Estate, Polo Ground, Indore, 452003.
Bhilai Engg. (P) Ltd., Bhilai 490001.

Maharashtra

Bharat Forge Co. Ltd., Mundhwa, Pune 411001.
Bombay Metal & Alloys Manufg. Co. Pvt. Ltd., Darukhana, Bombay 400010.
Bombay Metal Refinery, 24, Old Anjirwadi, Mascarenhas Rd., Mazagaon, Bombay 400010.
Devidayal Metal Ind. Ltd., Darukhana, Bombay 400010.
Emmes Metal Pvt. Ltd., 147, Govt. Ind. Estate, Bombay 400067.
Genoo Ind. (P) Ltd., Plot No. A52/53, Wagle Ind. Estate, Thana 400604.
Indian Smelting & Refining Co. Ltd., Shastri Marg, Bhandup, Bombay 400078.
Industrial Casting Co., Wagle Ind. Est., Thana 400604.
Kamani Metals & Alloys Ltd., Kurla, Bombay 400070.
Metallica Works Pvt. Ltd., 138, Govt. Ind. Estate, Bombay 400067.
Montana Pvt. Ltd., Rahimtoola House, Homji St., Bombay 400001.
Phiroze Sethna Ind., 14, J. Tata Rd., Bombay 400020.
Powder Metals & Alloys Pvt. Ltd., A-30, Ind. Estate, Thana 400604.
Shell Moulding Equipment, 15, Samrat Silk Mills Comp., Vikhroli, Bombay 400083.

Rajasthan

Jaipur Metals & Electricals Ltd., Jaipur 302006.
Jodhpur Zinc Metal Works, Ada Bazar, Jodhpur 342001.

Tamil Nadu

Best & Co. Pvt. Ltd., 13/15, North Beach Rd., Madras 600001.
Indian Metal & Alloys, Thadagam Rd., Coimbatore 641010.
Industrial Feeders, 50, Ind. Estate, Madras 600058.
Metalcast Services, B-12, Ind. Estate, Madras 600058.
Southern Alloy Foundries Pvt. Ltd., M. Milk Colony, Madras 600060.

Uttar Pradesh

Aryan Metal Ind., Badli Katra, Mirzapur 231001.
Gupta Non-Ferrous Foundry Ind., Naini, Allahabad 211001.
S. P. Foundries, 56/15, Factory Area, Kanpur 208001.
Saru Smelting & Refining Corpn., Ltd., Meerut Cantt. 250001.

West Bengal

A. T. Gooyee Metal Works Pvt. Ltd., 1, Mall Rd., Calcutta 700028.
Alloy Metal Ind. Pvt. Ltd., 16, R. S. Mullick Lane, Calcutta 700007.
Binani Metal Works, Pvt. Ltd., 38, Strand Rd., Calcutta 700001.

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Sales Office :
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Die Casting Ind. Pvt. Ltd., 12-B, N. Subash Rd., Calcutta 700001.

Hind Die-Casting (P) Ltd., 23-24, Radha Bazar St., Calcutta 700001.

Hindustan Metal Refining Works (P) Ltd., P.O. Joka, 24 Parganas.

CASTORS & TROLLEY WHEELS

Bombay Star Engg., 7, Mulchand Mansion, 30, Princess St., Bombay 400002.

CATALYSTS

Catalyst (India) Ltd., 79, Masjid Bunder Rd., Bombay 400003.

Catalysts and Chemicals India (West Asia) Pvt. Ltd., P.O. Adyar, (via-Udyogmandal) Kerala.

CATTLE FEED

Desai Enterprises Pvt. Ltd., 29, Amba Bhavan, Sion, Bombay 400022.

Foods. Fats and Fertilizers Ltd. Tedepalligudam 534101, Andhra Pradesh.

Hindustan Lever Ltd., Lever House, 165/166, Backbay Reclamation, Bombay 400020.

Kaira Distt. Co-op. Milk Producers Union Ltd., Anand 388001 Gujarat.

Sundatta Foods & Fibres Ltd., Temple Bar Bldg., 70, Forbes St., Bombay 400001.

Tata Oil Mills Co. Ltd., P.O. Sundrapuram, Podanur, Tamil Nadu.

CELLULOSE FILM

Kesoram Industries and Cotton Mills Ltd., 42, Garden Reach Rd., Calcutta 700024.

Travancore Rayons, P.O. Rayonpuram, Kerala.

CEMENT-MAKING MACHINERY

ACC-Vickers Babcock Ltd., Express Towers, Nariman Point, Bombay 400020.

Larsen & Toubro Ltd., L & T House, Ballard Estate, Bombay 400038.

Minato Shirke Concrete Machines Pvt. Ltd., 72-76, Mundhwa, Pune 411001.

Rohit Machines Corpn., 14 Rani Jhansi Rd., Motia Khan, New Delhi 110055.

CEMENT PRODUCTS

Andhra Pradesh

Allied Ind., 1-8-582, Ind. Area, Azamabad, Hyderabad 500020.

Hydrabad Asbestos Cement Products Ltd., Sanatnagar, Hydrabad 500018.

Panyam Cements & Mineral Ind. Ltd., Cement Nagar P.O., Kurnool.

Delhi

Asbestos Cement Ltd., 41-A, Friends Colony (East), New Delhi 110014.

Hindustan Prestressed Concrete Structures Pvt. Ltd., B-6, A. Ali Rd., New Delhi 110001.

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Gujarat

Arcoy Ind., 137, New Cloth Market, Ahmedabad 380002.

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Emco Tiles & Pipe Co., Panchkuva Rd., Khadia, Ahmedabad 380001.

Gujarat Cement Pipe Co., Shah-Alam Rd., Near Sawminarayan College, Ahmedabad 380022.

Hindustan Cement Pipe & Concrete Construction Co., Next to Calico Mills, Sewage Farm Rd., Ahmedabad 380001.

Spunpipe & Const. Co., (Baroda) Pvt. Ltd., Vraj-Vihar, Near Arunodaya Society, Faramji Rd., Vadodara 390005.

Vallabhnagar Cement Products, 1669 Khadia, Ahmedabad 380001.

Karnataka

Hillman Products, 764th Main Rd., Jayanagar, Bangalore 560011.

Maharashtra

Associated Cement Cos. Ltd., Cement House, 121, M. Karve Rd., Bombay 400020.

Devi Ind., 1271, Opp. D. G. Post Office, Pune 411004.

ESCO (Poona) Pvt. Ltd., 2432, East St., Pune 411001.

Freyssinet Prestressed Concrete Co. Ltd., Hamilton House, Graham Rd., Ballard Estate, Bombay 400038.

Hindustan Colour & Chemical Ind., 76, C. P. Tank Rd., Bombay 400004.

Maharashtra Spun Pipe Ind. Pvt. Ltd., 96 M.I.D.C., Poona-Nasik Rd., Bhosari, Pune 411026.

National Tiles & Ind. Pvt. Ltd., 31, Hamam St., Bombay 400001.

Precast Prestressed Concrete Products, 72-76, Mundhwa, Pune 411001.

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Tamil Nadu

Dalmia International, 29, Ind. Estate, Ambattur, Madras 600058.

West Bengal

National Planning & Construction Ltd., 16, G. Chandra Ave., Calcutta 700013.

Sarbamangala Manufg. Co., 31, College St., Calcutta 700012.

CERAMIC MACHINERY

Gidwaney Bros., 73, N. Subash Rd., Calcutta 700001.

CERAMICS & POTTERIES

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Associated Glass Ind. Ltd., 1-10-63-64 Rockland, Begumpet, Hyderabad 500016.

Mahalaxmi Glass Works Pvt. Ltd., P.O. Sanatnagar, Hyderabad 500018.

Micro Ceramics Pvt. Ltd., A-8, Co-operative Ind. Estate, Balanagar, Hyderabad 500037.

Sri Bala Krishna Tile Factory, Ayyakannu St., Palmaner, Chittor Dist.

Bihar

Bihar Firebricks & Potteries Ltd., P.O. Mugma, Dhanbad Dist.

Bengal Bihar Firebricks & Pottery Works Pvt. Ltd., P.O. Mugma, Dhanbad Dist.

Haris Tara Refractories, P.O. McChiskieganj, Ranchi Dist.

High Tension Insulators Factory, P.O. Namkum, Ranchi Dist.

India Firebricks & Insulation Co. Ltd., P.O. Marar, Hazaribagh Dist.

Jauhar Firebricks & Refractories Works (Pvt.) Ltd., P.O. Mugma, Dhanbad Dist.

Kumardhubi Fireclay & Silica Works Ltd., P.O. Kumardhubi, Dhanbad Dist.

Maithan Ceramics Pvt. Ltd., P.O. Chirkunda, Dhanbad Dist.

Seraikella Glass Works Pvt. Ltd., P.O. Kandra, Singhbhum Dist.

Delhi

Delhi Blue Art Pottery, 1, Factory Rd., New Delhi 110016.

Delhi Plaster Ind., P.O. Gurgaon Rd., New Delhi 110037.

Durga Enterprises Pvt. Ltd., 10, Darya Ganj, Delhi 110006.

Hitkari Brothers, Chaudhury Bldg., K. Block, Connaught Circus, New Delhi 110001.

Ishwar Ind. Ltd., P.O. Ishwar Nagar, New Delhi 110020.

New India Mineral Co., 9938, Sarai Rohilla, New Rohtak Rd., New Delhi 110005.

Palam Potteries, P.O. Gurgaon Rd., New Delhi 110037.

Parashar Sales Corpn., 8928/1, Multani Dhanda, Paharganj, New Delhi 110055.

Pelican Ceramics Ind., Mehpalpur, P.O. Gurgaon Rd., New Delhi 110037.

Prem Enamel & Metal Factory, Chamelian Rd., Bara Hindu Rao, Delhi 110006.

Shivraj Pottery Works, 4, Shanker Terrace, Fountain, Chandni Chowk, Delhi 110006.

Gujarat

Ambica Ceramic Works, Opp. Railway Station, Vijapur.
Anil Pottery Works, Naroda Rd., Opp. Excise Chokey, Saijpur Bogha, Ahmedabad 380001.
Ashok Pottery Works, Naroda Rd., Ahmedabad 380002.
Ashwin & Co., 535, Relief Rd., Ahmedabad 380001.
Baroda Ceramics Pvt. Ltd., 78, Chhani Rd., Vadodara 390001.
Baroda Potteries Ltd., Sant Rd., Panchmahal Dist.
Bhadiad Potteries, P.B. 9, Morvi.
Ceramic Handicrafts, New Valkert Gate, Kadwa Patidar Wadi, Bhavnagar 364001.
Chamuda Vijay Pottery Works, Tarnetor Rd., Thangadh.
Electro-Porcelain Ind., Plots 16 & 17, G.I.D.C. Estate, Post Odhav, Ahmedabad 380001.
Everest Industries, P.O. Works Compound, Morvi.
F. M. Shah & Co., Thangadh.
Gandhi Pranjivan Nanchand & Bros., 1605/11, Tankshal Pole, Kalupur, Ahmedabad 380001.
Girish & Co., 535, Relief Rd., Ahmedabad 380001.
Gujarat Ceramic Ind., Jin Para, Wankaner, Rajkot Dist.
India Tiles Manufg. Co., M. Gandhi Rd., Near Gaushala, Morvi.
Jai Hind Tiles & Pottery, M. Gandhi Rd., Morvi.
Kathiawar Ind. Ltd., P.O. Sherbang, Junagadh Dist.
Khodiyar Pottery Works Ltd., Sihor.
Nawroji N. Vakil & Co., Pottery Works, Vijaya Mills, Naroda Rd., Ahmedabad 380002.
Paras Pottery Works, Tithal Cross Rd., Valsad 396001.
Parshuram Pottery Works Co. Ltd., Morvi.
Pressed Porcelain Pvt. Ltd., Vallabh Vidyanagar, Near Anand.
Raipur Manufg. Co. Ltd., Near I.I.T., Naroda, Ahmedabad 380002.
Sabarkantha Ceramics, National Highway, Himatnagar.
Sakaria Toys, Thangadh.
Sarabhai Glass, P.B. 31, Wadi, Vadodara 390001.
Shree Everest Pottery Works, Thangadh.
Shree Lokmanya Engg. Works, 26, Bharatkhand Cotton Mills Comp., Naroda Rd., Ahmedabad 380016.
Shree Shakti Ceramic Ind., Bavla, Ahmedabad 380001.
Shree Shakti Pottery Works, Tarnetor Rd., Thangadh.
Shree Vallabh Glass Works Ltd., Vallabh Vidyanagar, near Anand.
Shree Vasuki Pottery Works, Vasuki Plot, Thangadh.
Shri Laxmi Pottery Works, Naroda Rd., Behind Kalyan Mills, Ahmedabad 380002.
Shri Lokmanya Tiles Co., M. Gandhi Rd., Morvi.
Shri Narayan Pottery Works, Naroda Rd., Ahmedabad 380002.
Shri Prabhat Pottery Works, Naroda Rd., Ahmedabad 380002.
Shri Prajapati Tiles Co., Near Textile Mills, P.B. 30, Morvi.
Shri Shaktivijay Pottery Works, Naroda Rd., Ahmedabad 380002.
Than Pottery Works, Thangadh.
Varia Tiles Works, Thangadh.
Witco Potteries, Thangadh.

Haryana

Ceramills Glaze & Zerconium Co., Daulatabad Rd., Gurgaon.
Hindustan Sanitaryware & Ind. Ltd., P.O. Bhadurgarh, Rohtak Dist.
Hindustan Vacuum Glass Ltd., Faridabad N.I.T.
Syam Ceramics & General Ind., Gopunagar, Faridabad.

Karnataka

Firebricks and Potteries Pvt. Ltd., Yeshvantpur, Bangalore 560022.
Mysore Iron & Steel Works Ltd., Bhadrawati.
Mysore Porcelains Ltd., Science Institute Post, Bangalore 560012.
Mysore Stoneware Pipes & Potteries Ltd., VI Cross Rd., Gandhinagar, Bangalore 560009.

Kerala

Hindustan Chinaclay Works, Pappinissery.
Standard Pottery Work Pvt. Ltd., Alwaye 683101.
Thomas Stephen & Co. Ltd., P.B. 14, Quilon 691001.
Travancore Ogale Glass Manufg. Co. Ltd., P.O. Kalamassery, Alwaye 683104.
Travancore Potteries, P.O. Chathanur, Quilon Dist.

Madhya Pradesh

Associated Cement Co. Ltd., Katni Cement Factory, Katni 483501.
Ghanshyamdas & Co., 139, M.T. Cloth Market, Indore 452001.
Gwalior Potteries Ltd., Gwalior.
Ishwar Industries Ltd., P.O. Niwar, Jabalpur 482001.

Maharashtra

Asian Electronics Ltd., Rd. No. 28, D-11, Wagle Ind. Estate, Thana 400604.
Bassein Ceramics Pvt. Ltd., 324, Cooks Bldg., Dr. D. Naoroji Rd., Bombay 400001.
Bombay Potteries & Tiles Ltd., Pipe Rd., Kurla, Bombay 400070.
Borosil Glass Works Ltd., Marol-Maroshi Rd., Off Military Rd., Bombay 400059.
Central Potteries Works, Bagadganj, Nagpur 440008.
Chemet, 65, M. Gandhi Rd., Bombay 400001.
Eagle Vacuum Bottle Manufg. Co. Ltd., 144/46, Sheriff Devji St., Bombay 400003.
Eastern Ceramics Ltd., M. Gandhi Rd., Opp. Mitha Ghar, Goregaon West, Bombay 400062.
Grindwell Abrasives Ltd., Karim Chambers, 30 Hamam St., Bombay 400001.
Haldyu Glass Works Pvt. Ltd., Off Western Express Highway, Goregaon (East), Bombay 400063.
J. G. Glass Industries, Pimpri, Pune 411018.
K. M. Ceramics, 102, Bank of Baroda Bldg., Palton Rd., Bombay 400001.
Kashmira Ceramic Products Pvt. Ltd., S. Vivekanand Rd., Mira Village, Bombay 400092.
Mahalaxmi Glass Works Ltd., Haines Rd., Bombay 400011.
Mahavir Refractories Corpn., Gopal Niwas, 133, Princess St., Bombay 400002.
Minerals Grinding Corpn., 56-D, Clerk Rd. (Rasul Comp.), Jacob Circle, Bombay 400011.
Navbharat Potteries Pvt. Ltd., Tokersey Jivraj Wadi, Zakaria Bunder Rd., Sewri, Bombay 400015.
Paisa Fund Glass Works, Talegaon Dabhade, Pune Dist.
Rescon Manufg. Co. Pvt. Ltd., 43/1, Karve Rd., Pune 411004.
Shon Ceramics Pvt. Ltd., B/16, Joshi Apartments, Callubhai Park Rd., Andheri West, Bombay 400058.

Orissa

Belpahar Refractories Ltd., P. O. Belpahar.

Konark Ceramics Pvt. Ltd., P.O. Khuntuni, Rly. Stn., Rajatgarh, Cuttack Dist.

Orissa Ind. Ltd., P.O. Barang, Cuttack Dist.

Orissa Ind. Ltd., Katchery Rd., Rourkela 769001.

Punjab

Gulati Ind. Corpn., G. Trunk Rd., Goraya.

Snow White Porcelain Enamel Works, Outside Kashmir Gate, Ferozepur City 152001.

Vicon Electrical Works Pvt. Ltd., G. Trunk Rd., Goraya.

Rajasthan

Bharat Mineral Supply Corpn., Lodha Dhambala, Prithviraj Marg, Ajmer 305001.

Bikaner Ceramics Pvt. Ltd., Ind. Area, Bikaner 334001.

Jaipur Glass & Potteries Works Ltd., Tonk Road, Jaipur 302004.

Rajasthan Ceramics Ind., Ind. Area, Alwar 301001.

Tamil Nadu

Carborundum Universal Ltd., 11-12, North Beach Rd., Madras 600001.

Ceramic Factory, P.O. Vridachalam, South Arcot Dist.

E. I. D. Parrys Ltd., Dare House, P.B. 12, Madras 600001.

Kent Ceramic Tiles & Co. Pvt. Ltd., 167, Broadway, Madras 600001.

Neyveli Ceramics & Refractories Ltd., P.O. Vadalur, South Arcot Dist.

Sheshasayee Ind. Ltd., Serakuppam, P.O. Vadalur. South Arcot Dist.

Stoneware Pipes (Madras) Ltd., Trivellore R.S., Chingleput Dist.

Tube Suppliers Ltd., 99, Armenian St., Madras 600001.

W. S. Insulators of India Ltd., Dhun Building, 175/1, Mount Rd., Madras 600002.

Uttar Pradesh

Hind Lamps Ltd., Sikohabad.

Indian Ceramic House, Langra-ki-Chowki, Agra 282004.

Modern Ceramic Co. Ltd., C-32/27, Vidyapith Rd., Varanasi 221002.

Mohan Crystal Glass Works, Mohan Nagar, Ghaziabad 201001.

National Flower Vases Pottery Works, P.O. Khujra.

U. P. Ceramics & Potteries Ltd., Model Town, Ghaziabad 201001.

West Bengal

Allied Distributors, 33, Brabourne Rd., Calcutta 700001,

Amic Ind. Pvt. Ltd., 10, B. T. Rd., Calcutta 700056.

Arco Ceramics, 8/1, G. Datta Garden Rd., Calcutta 700004.

Art Potteries Pvt. Ltd., 26, N. Chatterjee St., Belgharia, Calcutta 700056.

Assam Silimanite Ltd., 25, G. Chandra Ave., Calcutta, 700013.

Associated Porcelain Pvt. Ltd., 19, R.N. Mukerjee Rd., Calcutta 700013.

Balsukh Refractories & Ceramics Ltd., P.O. Salanpur, Burdwan Dist.

Bengal Enamel Works Ltd., 24, Chittaranjan Ave., Calcutta 700012.

Bengal Linn Ind. Furnace Ltd., 27B, Carnac St., Calcutta 700016.

Bengal Metrograph Co. Pvt. Ltd., 53, Pramanick Ghat Rd., Calcutta 700036.

Bengal Porcelain Co. Pvt. Ltd., 1/2 Motisil St., Calcutta 700013.

Bengal Potteries Ltd., 45, Tagore Rd., Calcutta 700015.

Bharat Grinders, 91, Dharamtolla St., Calcutta 700013.

Bharat Tin & Enamel Co. Pvt. Ltd., 72, Tiljala Rd., Calcutta 700046.

Burn & Co. Ltd., Martin Burn House, 12, Mission Row, Calcutta 700001.

Central Glass & Ceramic Research Institute, 196, Raja S. C. Mullick Rd., Calcutta 700032.

Central Glass Ind. Pvt. Ltd., 7, Swallow Lane, Calcutta 700001.

Central Ind. Corpn., 11, Rawdon St., Calcutta 700016.

Cieco Pvt. Ltd., 2/1, Barrackpore Trunk Rd., Calcutta 700050.

Durgapur Steel Plant, Hindustan Steel Ltd., Durgapur 713203.

Ferro Coatings & Colours Ltd., P.O. Joka, 24 Parganas.

Gidwaney Bros., 73, N. Subash Rd., Calcutta 700001.

Grace Mine Tile Corpn., 20/1, Lalbazar St., Calcutta 700001.

Harry Refractory & Ceramic Works Pvt. Ltd., 640, Rabindra Sarani, Calcutta 700003.

Hind Refractories Ltd., Durgapur 713203.

Hindustan Pilkington Glass Works, Hindustan Bldgs., 4, Chittaranjan Ave., Calcutta 700013.

Hindustan Potteries, 12, S. K. Daw Lane, Calcutta 700007.

Hindustan Refractories & Ceramics Pvt. Ltd., 20, N. Subash Rd., Calcutta 700001.

Hirji & Co. Pvt. Ltd., 20, Pollock St., Calcutta 700001.

India Potteries Ltd., 91, Dharamtala St., Calcutta 700013.

Indo Ashahi Glass Co. Ltd., 30 Chittaranjan Ave., Calcutta 700012.

Instrumentation Ltd., 1/55/1, Garcha 1st Lane, Calcutta 700019.

Jayashree Textiles & Ind. Ltd., P.O. Rishra, Hooghly Dist.

Karanpura Mining Corpn., 59-60, Strand Rd., Calcutta 700006.

Kusum Engg. & Co. Ltd., 25, Swallow Lane, Calcutta 700001.

M. N. Dastur & Co. Pvt. Ltd., P-17, Mission Row Extn., Calcutta 700013.

National Ceramic Ind. Ltd., 5B, Clive Ghat St., Calcutta 700001.

New Indian Glass Works Pvt. Ltd., 7, Rawdon St., Calcutta 700016.

Oriental Metal Ind. Pvt. Ltd., 67, B. B. Ganguly St., Calcutta 700012.

Orissa Cement Ltd., 4, Dalhousie Sq. (East), Calcutta 700001.

Power Porcelain, Bose Park, P.O. Sukhchar, 24 Parganas.

Reliance Firebricks & Pottery Co. Ltd., 11-12, Esplanade Mansions, Calcutta 700001.

Scientific India Glass Co. Ltd., 98, Christopher Rd., Calcutta 700046.

Shree Gobinddeo Glass Works Ltd., 9, Ezra St., Calcutta 700001.

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Chemicals & Plastics India Ltd., Dhun Bldg., 175/1, Mount Rd., Madras 600002.

E.I.D. Parry Ltd., Post Box No. 12, Dare House, Madras 600001.

Hindustan Photo Films Manufg. Co. Ltd., Indu Nagar, Ootacamund 643005.

Industrial Chemicals Ltd., Dhun Bldg., 175/1, Mount Rd., Madras 600002.

K. Mohan & Co., 541, Poonamallu High Rd., Madras 600003.

Krishna Ind. Corpn. Ltd., Rama Krishna Bldg., 38, Mount Rd., Madras 600006.

Madras Aluminium Co. Ltd., Mettur Dam, Salem Dist.

Mettur Chemicals & Ind. Corpn. Ltd., Mettur Dam R. S. Salem Dist.

Mico Farm Chemicals Ltd., 6, Linghi Chetty St., Madras 600001.

Uttar Pradesh

Cawnpore Chemical Works Pvt. Ltd., P.O. Anwarganj, Kanpur 208001.

Hind Chemicals Ltd., P.B. No. 227, Kanpur 208001.

J. K. Staple & Tows, Kamla Tower, Kanpur 208001.

West Bengal

Aceto Chemicals Pvt. Ltd., 22, Brabourne Rd., Calcutta 700001.

Alkali & Chemical Corpn. of India Ltd., I.C.I. House, 34, Chowringhee, Calcutta 700016.

Allied Resins & Chemicals Ltd., 13 Carnac St., Calcutta 700017.

Asiatic Chemical Ind., 71, Canning St., Calcutta 700001.

Asiatic Oxygen Ltd., 8, Dalhousie Square East, Calcutta 700001.

Bengal Chemicals Corpn., 208, Bipin Ganguly St., Calcutta 700012.

Bengal Chemicals & Pharmaceutical Works Ltd., 164, Maniktala Main Rd., Calcutta 700011.

Bengal Immunity Co. Ltd., 153, Dharamtolla St., Calcutta 700013.

Birla Jute Manufg. Co. Ltd., Calcium Carbide Division, P.O. Birlapur, 24-Parganas.

Burma Lime & Chemical Co. Ltd., 22/3, Jhamapukur Lane, Calcutta 700009.

C. D. Thakkar & Co., 22, Brabourne Rd., Calcutta 700001

Calcutta Chemical Co. Ltd., 35, Panditia Rd., Calcutta 700029.

Calcutta Chemical Corpn., 27, N. C. Dutta St., Calcutta 700006.

Calcutta Ind. Chemicals & Minerals Co., Ltd. 43, Dharamtolla St., Calcutta 700013.

Durgapur Chemicals Ltd., 10, Middleton Row, Calcutta 700016.

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Henry S. Clerk & Co., Kent House, P-33, Mission Row Extension, Calcutta 700013.

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Howrah Chemical Works, 148, M. Gandhi Rd., Calcutta 700007.

India Carbon Ltd., 6, Old Post Office St., Calcutta 700001.

India Alkalies Ltd., 5, Garstin Place, Calcutta 700001.

Indian Health Institute Laboratory Ltd., 1, Health Institute Rd., Dum Dum Cantt., Calcutta 700028.

Indo British Chemical Co., P. 14, Mission Row Extn., Windsor House, Calcutta 700001.

Indo Pharma Laboratory, 9/12, Lal Bazar St., Calcutta 700001.

J. D. Jones & Co., Ltd., C-5, Gillander House, 8, N. Subash Rd., Calcutta 700001.

Jayashree Chemicals Ltd., 14, N. Subash Rd., Calcutta 700001.

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Shree Krishna Pannalall, 16, India Exchange Place, Calcutta 70000.

Smith Stanistreet & Co. Ltd., 18, Convent St., Calcutta 700014.

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Tata Fison Ind. Ltd., Bengal Pharmaceuticals Division, 62-A, G. T. Rd., P.O. Konnagar, Hooghly Dist.

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Golden Tobacco Co. Ltd., J-10, Lajpatnagar III New Delhi 110024.

Hyderabad Deccan Cigarette Factory, Musheerabad, Hyderabad 500020.

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Universal Engg. Corpn., E-2/27, Jhandewalan, New Delhi 110055.

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Ambica Vijay Works Ind. Estate, Lalbagh, Bombay 400012.

Bengal Hardware & Co., 70, N. Subash Rd., Calcutta 700001

C. Bole & Co., 16 N. Dhuru St., Bombay 400003.

Empire Dyeing & Manufg. Co. Ltd., Garlick Engg. Div., B. Jagtap Marg, Bombay 400011.

Gammon India Ltd., Gammon House, V. Savarkar Marg, Prabhadevi, Bombay 400025.

Ingersoll Rand India Ltd., 7, Wellesley Place, Calcutta 700001.

International Machines Corpn., 16, Canning St., Calcutta 700001.

Killick Nixon Ltd., Killick House, Home St., Bombay 400001.

Lynx Machinery Ltd., 104, Ultadanga Main Rd., Calcutta 700004.

Millars Machinery Co. Pvt. Ltd., Victoria House, Victoria Rd., Bombay 400027.

Nadirshaw & Bros. Silver Talkies Bldg., 10, Khetwadi Back Rd., Bombay 400004.

Sayaji Iron & Engg. Co. Pvt. Ltd., Chhani Rd., Vadodara 390002.

Sujauddin & Co., 75, N. Subash Rd., Calcutta 700001.

Teknoworks (India), Lal Bahadur Shastri Marg, Bhandup, Bombay 400078.

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Anand Iron & Steel Ind., 11/115, Teliwara Shahdara, Delhi 110032.

Bhusan Ind. Corpn., 22, Ind. Area, Chandigarh 160017.

Dev Industrial Corpn., Bagichi Het Ram, Inside Sherinwala Gate, Patiala 147001.

Gobindo Sheet Metal Works & Foundry, 210, M. Gandhi Rd., Calcutta 700007.

Golden Steel Corpn. Pvt. Ltd., 64, G. Trunk Rd., Liluah, Howrah 711101.

Gupta Iron & Brass Works Pvt. Ltd., 29, Najafgarh Rd., New Delhi 110015.

Indian Hardware Ind. Ltd., N.I.T., Faridabad 121001.

Mineral Industries, Chholandepur, Baroda District.

Rana Engg. & Foundry Works Pvt. Ltd., 67-B, N. Subash Rd., Calcutta 700001.

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Vishnu Trdg. & Investment Co. Ltd., 4-8, Sardar Patel Marg, Jaipur 302001.

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Shaparia Dock & Steel Co. Pvt. Ltd., Sewree Fort Rd., Bombay 400015.

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Systems Manufrs. Pvt. Ltd., 320, 7th Main Rd., Raja Mahal Vilas Extn., Bangalore 560006.

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Marshall Sons & Co., (India) Ltd., 33/1, N. Subash Rd. Calcutta 700001.
Mechanical Handling Equipment Pvt. Ltd., 33, Chittaranjan Ave., Calcutta 700013.
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Vistas Corrugated Box Factory, 103, S. Patel Rd., Secunderabad 500003.

Delhi

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Anil Packaging Ind., 4539, Pahari Dhiraj, Delhi 110006.

Capital Corrugating Ind., 4184, Gali Ahiran, Pahari Dhiraj, Delhi 110006.

Delhi Corrugated Paper Co., Gali Bahuju, Pahari Dhiraj, Delhi 110006.

Delhi Packaging Pvt. Ltd., 1E/9, Jhandewalan Extn., New Delhi 110055.

Delhi Pulp Ind., Akashdeep Bldg., Bara Khamba Rd., New Delhi 110001.

Everest Corrugating Ind., 3-E/6, Jhandewalan Extn., Link Rd., New Delhi 110055.

Ganesh Packaging Ind., C-514, Defence Colony, New Delhi 110003.

Hindustan Papers, 7/33, Daryaganj, Delhi 110006.

Jaaj Corrugating Co., 6-A, Connaught Place, New Delhi 110001.

Packers Products, 10/58, Kirtinagar, New Delhi 110015.

Paper Products Ltd., 13-14, Ajmerigate Extn., New Delhi 110001.

Rajdhani Paper & Board Ind., Gali Bahuji, Pahari Dhiraj, Delhi 110006.

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Baroda Box & Manufg. Co., Kalali, Vadodara 390001.

Baroda Packaging, Box House, Ind. Estate, Vadodara 390003.

Carton & Container, Bajva, Via Vadodara.

Creative Packaging, Ind. Area, Vadodara 390003.

Gujarat Paper Ind., Makarpura, Vadodara 390001.

Jayant Paper Mills, Container Division, Utran, Surat Dist.

Peco Ind., R. C. Patel Ind. Estate, Akota Rd., Vadodara 390005.

Pick & Pack, Naroda Ind. Estate, Naroda, Ahmedabad.

Standard Corrugators, R. C. Patel Ind. Estate, Akota, Vadodara 390005.

Vakal Traders, Ind. Estate, Vadodara 390003.

Yogi Packaging Ind., 18, Pratap Gunj, Vadodara 390002.

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IPCO Packaging Pvt. Ltd., Elphinstone Mills (Leather Div.) Comp., Delisle Rd., Bombay 400013.

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Multiprint Ind., 25, New Islam Mills Comp., Currey Rd., Bombay 400013.

National Paper Box Factory, Haji Manzil, 82-86, A. Rehman St., Bombay 400003.

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Packers Pvt. Ltd., Patel House, Hughes Rd., Bombay 400007.

Packfine Corrugating Ind., 7, Sadhana Ind. Estate. Oshiwara, Jogeshwari Bombay 400060.

Packraft Ind., Sainath Ind. Estate. Shed No. 'D', Off Kotkar Rd., Goregaon East, Bombay 400063.

Packwel Service, 15, Sainath Ind. Estate No. 2, Near Kotkar Enamel Works, Goregaon East, Bombay 400063.

Pakrite, 27, 10th Kamathipura, Bombay 400008.

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Paradise Paper Products, Mahendra Ind. Estate, Rd. No. 29, Plot No. 109-D, Sion (East), Bombay 400022.

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Saurashtra Packing Service, 606, Churchgate Chambers, 5, New Marine Lines, Bombay 400020.

Saurashtra Paper Box Manufrs., 113, J. Maharaj Lane, 3rd Bhoiwada, Bombay 400002.

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Shakti Packaging Ind., 38/42, Shamsheth St., Bombay 400002.

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Shree Gurudatta Paper Box Factory, Mugbhat Lane, Girgaum, Bombay 400004.

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Packwell Ind. Pvt. Ltd., No. 37, Old Trunk Rd., Pallavaram, Madras 600043.

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Siva Packaging Ind., B-1, Ind. Estate, Ambattur, Madras 600058.

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Bengal Box Manufg. Co., 4, R. K. Chatterjee Rd., Cossipore, Calcutta 700002.

Bharat Paper Products, 352, R. Bahadur Rd., Calcutta 700053.

British Packaging Ind., 3, Portuguese Church St., Calcutta 700001.

Calcutta Paper Ind., 121 Chittaranjan Ave., Calcutta 700007.

Card Board Box Manufg. Co., 41, Chowringhee Rd., Calcutta 700016.

Card Board Products, 7A, Lower Circular Rd., Calcutta 700017.

Corrugating & Paper Processing Co. Pvt. Ltd., 243, B.T. Rd., Calcutta 700036.

Central Card Board Box Manufg. Co., 5, Dr. K. Bose St., Calcutta 700009.

Card Board Printing & Processing Ind. Ltd., 4, Clive Row, Calcutta 700001.

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Impex Corpn., 23J, R. M. Dutta Garden Lane, Calcutta 700010.

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National Paper Processing Co., 23/32, Chanditala Main Rd., Calcutta 700053.

Sunrise Packaging Co., 196/C, Chittaranjan Ave., Calcutta 700007.

United Paper Products, P/222, Panditia Rd. Extn., Calcutta 700029.

Union Packaging Industries, 5, Burro Shibtalla Main Rd., Calcutta 700038.

COSMETICS

Bengal Chemicals & Pharmaceutical Works, 6, Ganesh Chandra Avenue, Calcutta 700013.

Burroughs Wellcome and & Co. (India) Pvt. Ltd., 16, Bank St., Bombay 400001.

Ciba of India Ltd., 14, J. Tata Rd., Bombay 400020.

Colgate Palmolive (India) Ltd., Janmabhoomi Chambers, Fort St., Bombay 400001.

E. S. Patanwala, Patanwala Bldg., Connaught Rd., Bombay 4000027.

Geoffery Manners & Co. Ltd., Magnet House, Dougall Rd., B. Estate, Bombay 400038.

Glaxo Laboratories (India) Ltd., Dr. A. Besant Rd., Worli, Bombay 400018.

Johnson and Johnson Ltd., 30, Forjett St., Bombay 400026.

Lakme Ltd., Bombay House, Bruce St., Bombay 400001.

Swastik Oil Mills, 13, W. Hirachand Marg, Bombay 400038.

COTTON WASTE

(See under "Waste–Cotton" in this list)

COUPLINGS (FLEXIBLES)

Rathi Engg. Works, 27, Shankerset Rd., Pune 411009.

CRANES & CRANES COMPONENTS

Industrial Equipment Ind., A/55, Aaram Society, Vakola, Santa Cruz (East), Bombay 400055.

Mechanical Machinery Makers Pvt. Ltd., 67, Ekdalia Rd., Calcutta 700019.

CRASH HELMETS

Everlast Fibre Glass Products Pvt. Ltd., 5, Residency Rd., Bangalore 560025.

Hari Kripa Enterprises Pvt. Ltd., 9, Sriram Colony, Alwarpet, Madras 600018.

CROCKERIES — CERAMIC & PORCELAIN

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Deccan Porcelain & Enamel Works Ltd., Bakaram, Hyderabad 500001.
Hyderabad Potteries Ltd., 365-A, Bakaram, Hyderabad 500001.

Bihar

Reliance Firebricks & Potteries Co. Ltd., P.O. Chanch Pottery, Dhanbad Dist.

Delhi

Bawa Potteries, Mehrauli, New Delhi 110030.
Kashmir Ceramics Ltd., Jeevan Vihar, Parliament St., New Delhi 110001.
Paulsons Ceramic Potteries, 440, Palam Enclave, Delhi 110010.

Gujarat

Digvijay Tiles & Potteries Ltd., Jamnagar 361001.
Khodiayar Pottery Works Ltd., Opp. Rly. Stn., Sihor.
Parshuram Pottery Works Co. Ltd., 1, Dhrangadhra.

Haryana

Hitkari Potteries Pvt. Ltd., 63, Ind. Area, Faridabad 121001.

Karnataka

Government Porcelain Factory, Malleswaram, Bangalore 560001.

Kerala

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Madhya Pradesh

Burn & Co. Ltd., Jabalpur 482001.
Gwalior Potteries, Gwalior 474001.

Maharashtra

Kashmira Ceramic Products Pvt. Ltd., Rahimtulla House, Homji St., Bombay 400001.
Navbharat Potteries Pvt. Ltd., T. Jivraj Rd., Bombay 400015.

Punjab

Himalaya Potteries Ltd., Phillaur.
Hindustan Twyfords Ltd., Bahadurgarh, Mandi 175001.

Rajasthan

Shivraj Pottery Works, Opp. A.I.R., Jaipur 302001.

Uttar Pradesh

Khurja Potteries, Khurja.
U.P. Ceramics & Potteries Ltd., Model Town, Ghaziabad 201001.

West Bengal

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Bengal Enamel Works Ltd., 24, Chittaranjan Ave., Calcutta 700012.
Bengal Porcelain Co. Pvt. Ltd., 1-2, Motisil St., Calcutta 700013.
Bengal Potteries Ltd., 45, Tangra Rd., Calcutta 700015.
Calcutta Crucible Manufg. Works, 52, K. Mitra Lane, Salkia, Howrah 711101.
Central Glass Ind. Pvt. Ltd., 7, Swallow Lane, Calcutta 700001.
India Potteries Ltd., 91, Dharmatala St., Calcutta 700013.

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Jyoti Ind., C-31 Ind. Estate, Sanatnagar, Hyderabad 500018.

Kishore Trdg. Corpn., Makanji Niwas, Naoroji Lane, Ghatkopar, Bombay 400086.

Larsen & Toubro Ltd., L & T House, Ballard Estate, Bombay 400038.

New Lahore Engg. Co., Munshi Niketan, A. Ali Rd., New Delhi 110001.

Vulcan Laval Ltd., Mustafa Bldg., 7-A, Sir P. Mehta Rd., Bombay 400001.

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Nestle's Products (I) Ltd., P.B. 427, New Delhi 110001.

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Star Freez Ind., 627 J. Shankarshet Marg, Bombay 400002.

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Delhi

Nav Bharat Engg. Co., 4120, Naya Bazar, Delhi 110006.

Gujarat

Patel Manufacturers, P. Box No. 510, Rajkot 360002.

Maharashtra

Agra Engg. Co, 40, Bank St., Bombay 400001.

Arjansingh Khemchand, 118, Commerce House, Medows St., Bombay 400001.

Economic Traders, 35, Tamarind St., Bombay 400001.

Elmot Engg. Co. Pvt. Ltd., 2, Udyog Nagar, S. Vivekanand Rd., Goregaon West, Bombay 400062.

Elve Business Contacts Corpn., Elve Chambers, Green St., Bombay 400001.

Everest Engg. Coprn., 12, Hornby View Bldg., Gunbow St., Bombay 400001.

Geco Trdg. Corpn., 5, K. K. Mansions, 289, Nagdevi St., Bombay 400003.

H. T. C. Diesel Engines Pvt. Ltd., Plot No. 33, Kandivli Govt. Ind. Estate, Kandivli West, Bombay 400067.

Javahar Engines Pvt. Ltd., Shrirampur, Ahmednagar Dist.

Kirloskar Cummins Ltd., Kothrud, Pune 411029.

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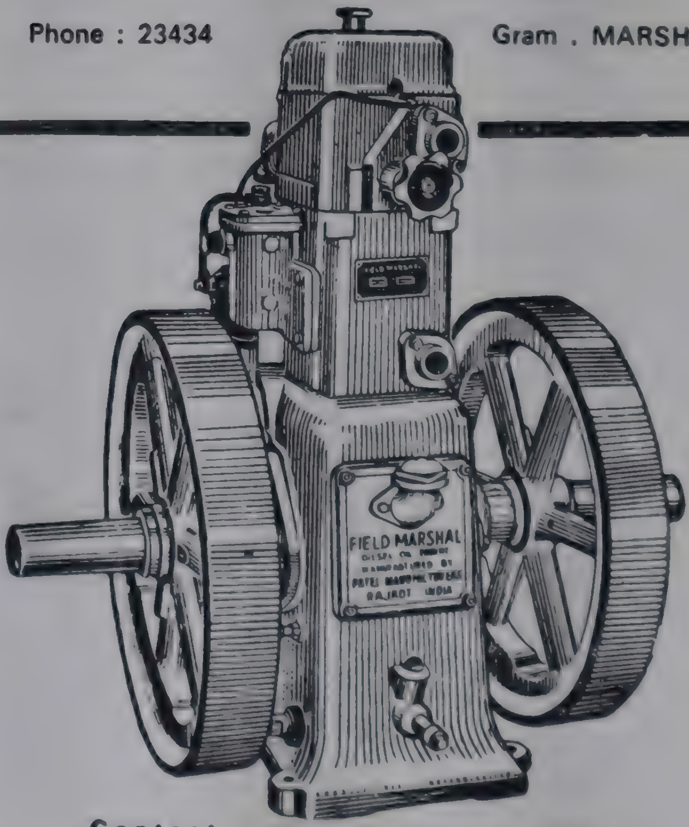

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Indian National Diesel Engine Co. Ltd., Hall & Anderson Bldg., Park St., Calcutta 700016.

Universal Engineers & Traders, 20, N. Subash Rd., Calcutta 700001.

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A. P. Govt. Power Alcohol Factory, Shakarnagar, Nizamabad Dist.

Anakapalle Co-op. Agricultural & Ind. Society Ltd., W/41, Thummapala, Anakapalle 531001.

Andhra Sugar Ltd., Venkatarayapuram, Tanuku 530001.

Andhra Winery & Distillery, Malkajgiri, Secunderabad 500047.

Hindustan Polymers Ltd., Pendurthi Rd., Visakhapatnam 530001.

K. C. P. Ltd., (Distillery) Vuyyuru, Krishna Dist.

Sri Ram Sugar & Industries Ltd., Bobbili, Srikakulam Dist.

Sri Sarvaraya Sugars Ltd., Chelluru, East Godavari Dist.

Vinedale Distilleries Pvt. Ltd., Chateau-De-Causer, Premavathipet Village, P.O. Gagan Pahar, Hyderabad Dist.

Bihar

Behar Distillery Pvt. Ltd., Pachrukhi, Saran Dist.

New Swadeshi Sugar Mills Ltd., Narkatiaganj, Champaran Dist.

S. K. G. Distilleries, Lauriya, Champaran.

S. K. G. Distillery, Mirganj, Saran Dist.

Goa

Arlem Breweries Ltd., Mormugao Harbour, Goa 403803.

Gujarat

Alembic Chemical Works Co. Ltd., Ind. Area, Vadodara 390001.

Sardesai Brothers Ltd., P.O. Sardesai Factory, Bilimora, Valsad Dist.

Shree Bileshwar Khand Udyog, Khedut Sahakari Mandli Ltd., Kodinar.

Haryana

Haryana Distillery, Yamunanagar.

Karnal Distillery Co. Ltd., Karnal 132001.

Panipat Co-operative Distillery, Panipat 132103.

Himachal Pradesh

Mohan Meakin Breweries Ltd., P.O. Solan Brewery.

Solan Breweries, Solan 173212.

Karnataka

Amrut Distilleries, Sampangi Tank Rd., Bangalore 560027.

India Sugar & Refineries Ltd., Hospet, 583201.

Mysore Sugar Co. Ltd., Mandya, 571401.

Nandi Breweries & Distillers Pvt. Ltd., 9th Mile Stone, Tumkur Rd., Bangalore 560022.

Ugar Sugar Works Ltd., Ugar Khurd, Belgaum Dist.

United Breweries Ltd., 32 Grant Rd., Bangalore 560001.

Kerala

Co-operative Sugars Ltd., Chittur, P.O. Menonpara, Palghat Dist.

Travancore Sugars & Chemicals Ltd., Pamba Distillery, Tiruvalla 689101.

Maharashtra

Brihan Maharashtra Sugar Syndicate Ltd., Shreepur, Sholapur Dist.

Kolhapur Sugar Mills Ltd., Kasba Bavada, Kolhapur 416006.

Krishna S. S. K. Ltd., Rethare-Budruk, P.O. Shivnagar, Satara Dist.

Maharashtra Sugar Mills Ltd., Tilaknagar, Ahmednagar Dist.

Polychem Ltd., Nira, Pune Dist.

Pravara S. S. K. Ltd., Pravaranagar, Ahmednagar Dist.

Rahuri Sahakari Sakhar Karkhana Ltd., Shrishivajinagar Ahmednagar Dist.

Shetkari Sahakari Sakhar Karkhana Ltd., Sangli 416416.

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Walchandnagar Ind. Ltd., Walchandnagar, Pune Dist.

Punjab

Bhagat Ind. Corpn. Ltd., P.O. Distillery Khasa, Amritsar 143001.

Jagatjit Ind. Ltd., P.O. Jagatjitnagar, Kapurthala Dist.

Rajasthan

Ganganagar Sugar Mills Ltd., Sriganganagar 335001.

Udaipur Distillery Co. Pvt. Ltd., Udaisagar Rd., Udaipur 313001.

Tamil Nadu

Arvind Distillery Pvt. Ltd., "Meco House", 11-A/1, Mount Rd., Madras 600002.

E. I. D. Parry Ltd., Nellikuppam.

McDowells Co. Ltd., 22-23 Moore St., Madras 600001.

Sakthi Sugar Ltd., 72, Sengupta St., P.B. 960, Ramnagar, Coimbatore 641001.

Trichy Distilleries & Chem. Ltd. Senthannipuram, Golden Rock, Tiruchirapally 620001.

Uttar Pradesh

Ajudhia Distillery, Raja-ka-Sahaspur, Moradabad Dist.

Alco Chem. Ltd., Seohara, Bijnor Dist.

Captainganj Distillery, Captainganj, Deoria Dist.

Carew & Co. Ltd., Rosa, Shahjahanpur Dist.

Central Distillery & Chem. Works Ltd., Meerut Cantt. 250001.

Co-operative Co., Ltd. (Distillery), Saharanpur 247001.

Daurala Sugar Works (Distillery), Daurala, Meerut Dist.

Doon Valley Distillers, Kunwawala, Hardwar Rd., P.O. Harrawala, Dehradun 248001.

Hindustan Sugar Mills Ltd., Golagokarannath, Kheri Dist.

Kesar Sugar Works Ltd., Beheri, Bareilly Dist.

Modi Distillery, Modinagar 250001.

Mohan Meakin Breweries Ltd., Mohannagar, Ghaziabad 201001.

Mohan Meakin Breweries Ltd., Lucknow Distillery, Dallygunge, Lucknow 226001.

Narang Ind. Ltd., Nawabganj, Gonda Dist.

Oudh Sugar Mills Ltd. (Distillery), Hargaon, Sitapur Dist.

Pilkhani Distillery & Chem. Works, P.B. 69, Saharanpur 247001.

Rampur Distillery & Chem. Co. Ltd., Rampur 244901.

Saraya Distillery, Sardarnagar, Gorakhpur Dist.

Shamli Distillery & Chem. Works, Shamli, Muzaffarnagar Dist.

Simbhaoli Ind. Pvt., Ltd., Simbhaoli, Meerut Dist.

Sir Shadi Lal Distillery & Chem. Works, Mansurpur, Muzaffarnagar Dist.

Standard Refinery & Distillery Ltd., Unnao 209801.

West Bengal

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Bengal Distilleries Co. Pvt. Ltd., 4/5, Bankshall St., Calcutta 700001.

Ruttonjee & Co. Ltd., 6, Old Court House St., Calcutta 700001.

Shaw Wallace & Co. Ltd., Bhadrakali, Hooghly Dist.

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DIVING EQUIPMENT

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Biological Evans Ltd., 18/1 & 3 Azamabad, Hyderabad 500020.
J. & J. Dechane, Residency Rd., Hyderabad 500001.
Nath Laboratories, 23A, Ind. Estate Expansion, Balanagar, Hyderabad 500037.
Royal Laboratories, Chandulal Baradari, Hyderabad 500002.
Siri Pharma, Sirinagar Ind. Estate, Vijayawada 520007.
Sri Vizia Medical Syndicate, B-4-304/2, Bank St., Sultan Bazar, Hyderabad 500001.
Warner Hindustan Ltd., Warangal Rd., Uppal, Hyderabad 500039.

Assam

Drugs India (Manufg.), Dispur, Gauhati 781005.
United Colours & Chemicals (Assam) Pvt. Ltd., G. Bordoi Rd., Panbazar, Gauhati, 781001.

Bihar

National Chemical & Pharmaceutical Works, 5, Kankarbagh Rd., Patna 800001.
Natraj Chemicals, Chittaranjan Rd., P.O. Lakhisarai-Monghyr Dist.
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Supreme Pharmaceutical Laboratories, Exchange Rd., Raxaul.

Delhi

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Mercury Pharmaceutical Ind., 2/13 and 2/14 Ind. Estate, Vadodara 390003.
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Rup Pharma, A-1, Udyognagar, Navsari 396445.
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Haryana

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National Laboratories, 20th Mile Stone, Mathura Rd., Ballabhgarh 121004.
Nectarine Pharmacy, 47, Ind. Area, Faridabad 121001.
Societa Confica Chemical Corpn., Modern Ind. Estate, Main Rd., Bahadurgarh.

Himachal Pradesh

Pharma Chemico Laboratories, Solan 173212.

Karnataka

Associated Drug Co. Pvt. Ltd., Sampangi Tank Rd., Bangalore 560002.

Avon Malariana Pharma, 840/14B, Jeppu Rd., Mangalore 575002.
Bangalore Pharmaceutical Research Laboratories, 163, Reservoir St., Basavanagudi, Bangalore 560004.
Eros Pharma, 61, Ind. Area, Rajaji Nagar, Bangalor 560019.
Fine Chemical Laboratories, Yeshwantpur, Bangalore 560022.
Hindustan Theramids, 163, O.V.H. Rd., Basavanagudi, Bangalore 560004.
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International Chemical & Biological Inst. Pvt. Ltd., 7, South End Rd., Basavanagudi, Bangalore 560004.
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Madras Chemicals & Pharmaceuticals Ltd., No. 7, Harris Rd., Benson Town, Bangalore 560046.
Mysore Ind. & Testing Laboratory Ltd., I.T.L. Bldg., Malleswaram, Bangalore 560003.
Rampen Pvt. Ltd., 30, Miller Rd., 1 Cross, Bangalore 560006.
Smith Kline & French (I) Ltd., 22/6, Grant Rd., Bangalore 560001.
Sunder Chemical Works, 138, Nehru Nagar, Bangalore 560020.

Kerala

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Electrochemical Manufg. Co., Mulagunnathukavu, Trichur Dist.
Enoch Pharma, Q. S. Rd., Quilon 691008.
Marco Chemicals, 20/269, West Fort, Trichur 680004.
Navaratna Pharmaceutical Laboratories, Navaratna House, Manthra Rd., Cochin 682001.
Phair Laboratories, Ettumannoor 686631.
Pharmaceuticals & Chemicals (Trav) Pvt. Ltd., Trivandrum 695001.
Puru Pharma Pvt. Ltd., W22/189, Alleppey, 688001.
Pratap Ind., P. B. 22, Tirur 676101.
Southern Union Pharmaceuticals, Museum Rd., Trichur 680001.
Trinity Pharmaceuticals (I) Pvt. Ltd., Ran Vihar, Aranattukara, Trichur Dist.

Madhya Pradesh

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Ajmera Pharmaceuticals, B/94, Ind. Estate, Polo Ground, Indore 452001.
Alpha Laboratories, 104, Ushanagar Colony, Indore 452001.
Bharat Pharmaceuticals, 23, Yeswant Niwas Rd., Indore 452003.
Bombay Ideal Products (I), 6, Ind. Estate, Indore 452003.
Bombay Pharma Products, 122, Palsikar Colony, Indore 452002.
Fine Pharmaceutical Ind., 24, Adarsh Nagar, Indore 452001.
Hambar Pharmacy, 4/96, Manak Pura, Ujjain 456001.
Imphalabs, 111, Ind. Estate, Indore 452003.
J.M.J. Pharma, Mangla Rd., Bilaspur 495001.
Jamsons Laboratories, 43, Ind. Estate, Indore, 452003.
Joy Pharmaceutical Laboratories, 17, Pagnispaga, Indore 452002.
Lokash Chemical Works, Raipur 492001.
Lord Chemical Works, 7, Tukogunj Main Rd., Indore 452001.
M. K. Industries, Melonigunj, Jabalpur 482001.
MAB-LAB, 82, Ravindra Nagar, Indore 452001.
Oriental Chemical Works, Opp. Rly. Stn. Rd., Indore.
Pure Pharma Products (I), 41-44, Ind. Estate, Indore 452003.
Ravi Chemical Ind., 84, Shankar Baug, Indore 452001.
Relief Drug House, Jay Medical Corpn., Maharani Rd., Indore 452001.
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Vitachem Pharmaceuticals, Wassaimul Bldg., Grant Rd., Bombay 400007.

Wander Ltd., Shivsagar 'A', Dr. A. Besant Rd., Worli, Bombay 400018.

Wason Drug Laboratory, 306, A. Rehman St., Bombay 400003.

Wesix Chemicals, Marshall Bldg., Ballard Rd., Bombay 400038.

West Coast Pharmaceuticals Pvt. Ltd., West Coast House, Nr. Shiroli, Octroi Naka, Kolhapur 416001.

Western India Pharmaceutical Co., 1-B, Rajdeep, 63-E, Linking Rd., Santa Cruz West, Bombay 400054.

Wisun Laboratories, 1, Prabhat Nagar, Jogeshwari West, Bombay 400060.

Wockhardt Pharmaceuticals, 216-A, Dr. A. Besant Rd., Bombay 400025.

Wyeth Lab. Ltd., Steelcrete House, D. Wachha Rd., Bombay 400020.

Wykem Labs., Nand-Deep Ind. Estate, Kondivita Lane, Andheri-Kurla Rd., Bombay 400059.

Zandu Pharmaceutical Works Ltd., Gokhale Rd., South Bombay 400028.

Zenith Chemical Works Pvt. Ltd., 4, French Bridge, Bombay 400007.

Zone Chemical Co., 88-C, New Prabhadevi Rd., Nagu Sayachi Wadi, Bombay 400025.

Pondicherry

Ananda Pharmaceuticals, 78, Amalathadai Noda St., Pondicherry 605001.

Punjab

Franklin Laboratories (I) Pvt. Ltd., Maharani Jhansi Rd., Ludhiana 141001.

Healone Laboratories, Medicine Manufg. Corpn. Ind. Society Ltd., College Rd., Mansa.

Swatantra Asian Chemical Pvt. Ltd., Railway Rd., Gurgoan 122001.

Unimax Laboratories, Jandiala Guru, Amritsar 143001.

Rajasthan

Delux Pharma, Municipal Godown Rd., Abu Rd.

Hofal Chemicals, Udaisagar Rd., Udaipur 313001.

Jaipur Pharmaceutical Works, 2, S.P. Ind. Estate, Jaipur South 302001.

Vijay Drug House, Near Ismailia School, Abu Rd.

Tamil Nadu

Bahola Pharmaceuticals Co., Homoeo House, Bakthapuri, Kumbakonam 612001.

Dada Drugs & Pharmaceuticals Pvt. Ltd., 86, C. N. Naicken St., Madras 600003.

Indo French Pharmaceutical Co., Catholic Centre, Armenia St., Madras 600001.

Medo Pharma, Mohan Mansion, 38-C, Mount Rd., Madras 600006.

Mount Mettur Pharmaceuticals Pvt. Ltd., No. 7, Thanga, Pattai, Tiruvanmiyur, Madras 600041.

Murugesan & Brothers, 972/2, North 3rd St., Pudukotta, 622001.

Orient Pharma Pvt. Ltd., Old Trunk Rd., Pallavaram, Madras 600043.

Retort Laboratories, Milk Colony Rd., Madhavram, Madras 600060.

Spencer & Co. Ltd., 153, Mount Rd., Madras 600002.

Ward, Blentinsop & Co. (I) Ltd., 150-A/2, Mount Rd., Madras 600002.

Uttar Pradesh

Anandakar Karyalaya Pvt. Ltd., Khatrana Tola, Etawah 206001.

Arpi Chemical Ind., Mohan Mohalla, Kasganj.

Arpike Pvt. Ltd., 22, A. P. Sen Rd., Lucknow 226001.

Chemidoc Enterprises Pvt. Ltd., 170/1, Noorullah Rd., Allahabad 211001.

Emson & Co., B-16, Ind. Estate, Meerut Rd., Ghaziabad 201001.

Federal Chemical Works, Ghaziabad 201001.

Flora Pharma Pvt. Ltd., Sushila Sadan, 112/212, Swaroop Nagar, Kanpur 208001.

Garga Pharma Pvt. Ltd., Talkotora Rd., Ind. Area, Lucknow 226001.

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Kumar Pharmaceutical Works Pvt. Ltd., Kotla Rd., Firozabad.

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Scientific Research Ind. (I) Pvt. Ltd., 4, Chitwapur Rd., Lucknow 226001.

Rashtra Deep Laboratory, 78, Purani Mori, Firozabad.

Vitamin Labs of India Pvt. Ltd., Aishbag, Lucknow 226001.

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Adcco Ltd., P.O. Adcconagar, Hooghly Dist.

A. J. Judah Pharmaceutical Pvt. Ltd., 34, Regent Park, Calcutta 700040.

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B. C. Bhansaly, 117/119, P. Roy St., Calcutta 700007.

Bengal Chemical & Pharmaceutical Works Ltd., 6, G. Chunder Ave., Calcutta 700013.

Bengal Immunity Co. Ltd., Immunity House, 153, Lenin Saranee, Calcutta 700013.

Bio-Drug Laboratories Pvt. Ltd., 348, M. Nandakumar Rd., (North), Calcutta 700035.

British Medicine Pharmaceutical Co. Pvt. Ltd., 5/1, H. Mukherjee Rd., Calcutta 700025.

Calcutta Chemical Co. Ltd., 35, Pandita Rd., Calcutta 700029.

Carbon Laboratories, 17, Mall Rd., Calcutta 700028.

Dabur (Dr. S. K. Burman) Pvt. Ltd., 142, R. Behari Ave., Calcutta 700029.

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Dolphin Laboratories Pvt. Ltd., 1, Allenby Rd., Calcutta 700020.

East India Pharmaceutical Works Ltd., 6, Little Russel St., Calcutta 700016.

Frank Ross & Co. Ltd., 7, J. Nehru Rd., Calcutta 700013.

Gluconate Ltd., 23, Camac St., Calcutta 700016.

India Alkalies Ltd., 5, Garstin Place, Calcutta 700001.

Indian National Drug Co. Pvt. Ltd., 5/2, Beleghata Main Rd., Calcutta 700010.

Indo Pharma Laboratory, 9/12, Lal Bazar St., Calcutta 700001.

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Reckitt & Colman of India Ltd., 41, Chowringhee Rd., Calcutta 700016.

Sen's Chemical Works Pvt. Ltd., 271, Chittaranjan Ave., Calcutta 700006.

Smith Stanistreet & Co. Ltd., 18, Convent Rd., Calcutta 700014.

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South India Carbonic Gas Ind. Ltd., Mysore Rd., P.O., G.E.F., Bangalore.

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Jagadamba Ind. Corpn., Katra Tobacco, Khari Baoli, Delhi 110006.

National Chemical Ind., 26, Najafgarh Rd., New Delhi 110015.

National Colour Co., Tilak Bazar, Delhi 110006.

Gujarat

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Arnish Chemdyes Corpn., Ajanta Estate, Rakhial, Ahmedabad 380023.

Ashok Chemical Ind., Station Rd., Bhavnagar 364001.

Asian Dyestuffs Ind., Kaji's Dhaba, Astodia Rd., Ahmedabad 380001.

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Associated Dyestuff Ind., Prajapati Bhuvan, Khadia Char Rasta, Ahmedabad 380001.

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Bharat Chemical Ind., 5, Red Park Society, Manjalpur Rd., Vadodara 390001.

Coaltar Chemicals Manufg. Co., 55, Hirabhai Market, Ahmedabad 380022.

Chemicals & Dyestuffs Ind., Kalia Kuva, College Rd., Nadiad 387001.

Chemoacet Ind., M. Gandhi Rd., Udhna Ind. Estate, Surat Dist.

Comet Dyestuffs Pvt. Ltd., Vijaya Mills Comp., Naroda Rd., Ahmedabad 380002.

Devarsons Pvt. Ltd., Narayan Niwas, Astodia, Ahmedabad 380001.

Dye-Azo Pvt. Ltd., C-2/20, Ind. Estate, Vadodara 390003.

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Griha Laxmi Rang Udyog Pvt. Ltd., 16, Nandanvan Co-op. Society, Vadodara 390005.

Indequip Chemdyes Ltd., Reid Rd., Ahmedabad 380002.

Indian Texdyes Ind., Pardi State Bldg., Outside Panchkuva Gate, Ahmedabad 380002.

Indo Dyes Ind., Swaminarayan Estate, Outside Dariapur Gate, Ahmedabad 380001.

Jeeka Ind., Astodia, Ahmedabad 380001.

Meghdoot Dyes, Jhalod, Panchamahal Dist.

Modern Dyestuff Ind., 10-20, Ind. Estate, Godhra 389001.

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Premier Chemicals, Chhani Rd., Vadodara 390003.

Rainbow Texdyes Corpn., Pratapnagar Rd., Khanderao Marg, Vadodara 390004.

Shree Ban Dyes, Bansidhar House, Kankaria Rd., Ahmedabad 380022.

Shree Dira Dye-chem, Bahucharji Rd., Vadodara 390003.

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Colour Industries, 265, Kalbadevi Rd., Bombay 400002.

Columbia Chemi-Colour Ind. Pvt., Ltd., 81, Dr. A. Besant Rd., Worli, Bombay 400018.

DRD Chemicals, E/1, Sonawala Estate, Goregaon (East), Bombay 400063.

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Dychem Manufg. Co. Pvt. Ltd., Navsari Chambers, Outram Rd., Bombay 400001.

Emulsol Industrial Products, 771, Mogal Lane, Mahim, Bombay 400016.

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Gujarat Chemical Ind., Winsol Comp., Kurla-Andheri Rd., Bombay 400070.

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Idachem Ind. Pvt. Ltd., National Insurance Bldg., 204, Dr. D. Naoroji Rd., Bombay 400001.

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M.P. Dye-Chem Ind., 27, V. Chandan St., Bombay 400003.

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National Dyes, Bombay Mutual Chambers, 19/12, Hamam St., Bombay 400001.

Navind Ind., Indu Chambers, 349/53, Samuel St., Bombay 400003.

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Prakash Trading Co., 43, Laxmi Bldg., Sir P. Mehta Rd., Bombay 400001.

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Sawkar Chemical Ind., 9, New Agra Rd., Kurla, Bombay 400070.

Shankar Dyes & Chemical Ind., Sunderbaug Estate, Tulsiwara Bridge, Jogeshwari, Bombay 400069.

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Uma Chemical Ind., 288, Samuel St., Bombay 400003.

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Vapson Products, 419-A, Arun Chambers, Tardeo Rd., Bombay 400034.

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Zenith Colour Chem Ind., 316, Samuel St., Bombay 400003.

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Jhonson Electric Co., Chhani Rd., Navayard, Vadodara 390002.

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Uttar Pradesh

Electra (I) Pvt. Ltd., B-4, Ind. Estate, Partapur, Meerut.

Mirzapur Electrical Ind., Dankinganj, Mirzapur.

West Bengal

Bagchi Electric Co., 262, Acharya P. Chandra Rd., Calcutta 700006.

East India Electricals, 38, N. Subash Rd., Calcutta 700001.

Electrical Manufg. Co. Ltd., 136, Jessore Rd., Calcutta 700055.

Hengers (I) Pvt. Ltd., Narayani, 27, Brabourne Rd., Calcutta 700001.

Hind Galvanizing & Engg. Co. (Pvt.) Ltd., 96, Garden Reach Rd., Calcutta 700023.

ELECTRICAL EQUIPMENT FOR LARGE PLANTS

Delhi

Bharat Heavy Electricals Ltd., 5, Parliament St., New Delhi 110001.

Gujarat

Jyoti Ltd., Ind. Area, Vadodara 390003.

Madhya Pradesh

Heavy Electricals (India) Ltd., P.O. Piplani, Bhopal 460021.

Maharashtra

Crompton Greaves Ltd., 1, Forbes St., Bombay 400001.

Dattatraya Industries Pvt. Ltd., 69–A, Poona–Satara Rd., Pune 411009.

Forward Engg. Ind., Plot No. A-8, Road No. 1-N, M.I.D.C., Thana 400604.

Hind Rectifiers Ltd., Lake Rd., Bhandup, Bombay 400078.

Hindustan Brown Boveri Ltd., Brown Boveri House, 264-265, Dr. A. Besant Rd., Bombay 400025.

Hindustan Klockner Switchgears Ltd., Prospect Chambers, 317/21, Dr. D. Naoroji Rd., Bombay 400001.

Indian Engg. Co., Worli Naka, Bombay 400018.

Larsen & Toubro Ltd., L & T. House, Dougall Rd., Ballard Estate, Bombay 400001.

Richardson Cruddas (1972) Ltd., Byculla Iron Works, Bombay 400008.

Siemen's India Ltd., 134A, Dr. A. Besant Rd., Worli, Bombay 400018.

Voltas Ltd., 19, Graham Rd., Ballard Estate, Bombay 400001.

Tamil Nadu

Hackbridge-Hewittic & Easun Ltd., 5-7, Second Line Beach, Madras 600001.

West Bengal

Andrew Yule & Co. Ltd., Yule House, 8, Clive Row, Calcutta 700001.

Associated Electricals (I) Ltd., Crown House, 13, R. Mukherjee Rd., Calcutta 700001.

Electric Construction and Equipment Co. Ltd., 9, K. Singhee Rd., Calcutta 700002.

ELECTRICAL FANS

(See under 'Fans' in this list).

ELECTRICAL GOODS

M C Engg. Co. Pvt. Ltd., 220, Okhla Ind. Est., New Delhi 110020.

ELECTRICAL HEATING APPLIANCES

(See Heating Appliances, Industrial ovens, Incubators, etc. in this list).

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131, Kanwali Road, Dehra Dun.
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Grams : "COMET". Telex : 059-201.

ELECTRICAL HEATING ELEMENTS

Doshi Metal Industries, 3, Jawahar Rd., Udyognagar, Udhna, Gujarat.

Kantilal Chunilal & Sons, 80/82, Vithalwadi, Bombay 400002.

Raval & Co., Shreeji Bhuvan, Lohar Chawl, Bombay 400002.

ELECTRICAL INDUSTRIES

Ahmedabad Electricity Co. Ltd., 83, 'Advent', G. Bhonsle Marg, Backbay Reclamation, Bombay 400021.

ELECTRICAL METERS & MEASURING INSTRUMENTS

(See under Meters & Measuring Instruments).

ELECTRICAL MOTORS

(See under Motors—Electrical).

ELECTRICAL SWITCHES, SWITCHGEAR & ACCESSORIES

(See under Switches, Switchgear & Accessories).

ELECTRICAL LAMPS & ACCESSORIES

Delhi

Auto Lamps Ltd., 6, Alipur Rd., Delhi 110006.

Neonlite Manufg. Co., 21, Darya Ganj, Delhi 110006.

Philips India Ltd., 68, Najafgarh Rd., New Delhi 110015.

Sylvania & Laxman Ltd., 68/2, Najafgarh Rd., New Delhi 110015.

Karnataka

Metal Lamp Caps India Pvt. Ltd., No. 2, Murphy Rd., Ulsoor, Bangalore 560008.

The Mysore Lamp Works Ltd., Old Tumkur Rd., P.O. Science Institute, Bangalore 560012.

The Neon Signs (Mysore) Pvt. Ltd., Sri Krishna Bldg., Bangalore 560009.

Kerala

Toshiba Anand Lamps Ltd., XXIII/376, M. Gandhi Rd., Ernakulam, Cochin 682011.

Maharashtra

Ajit Radio Corpn. Pvt. Ltd., 49/51, Vithaldas Rd., Lohar Chawl, Bombay 400002.

Ajit Wire Ind. Pvt. Ltd., 58, Sir M. Vissanji Rd., Andheri (East), Bombay 400059.

B. Chowdhuri & Co., Indian Globe Chambers, Fort St., Bombay 400001.

Cielmac Pvt. Ltd., 35, Mahal Ind. Estate, Mahakali Caves Rd., Bombay 400093.

Crafts-De-Fluorescent, 8, Sitafalwadi, Mount Rd., Mazagaon, Bombay 400010.

Crompton Greaves Ltd., 1, Forbes St., Bombay 400001.

Ellora Art Ind., Shreeji Bhuvan, Lohar Chawl, Bombay 400002.

Glolite Electricals, Mazagaon, Bombay 400010.

Hindco Lighting Ind. Ltd., Hindlight House, Subash Nagar, Jogeshwari (East), Bombay 400060.

Lamp Caps and Filaments Ltd., 32, R. Dadaji St., Bombay 400001.

Markcel Pvt. Ltd., Shreeji Bhuvan, Lohar Chawl, Bombay 400002.

Premier Lighting Ind. Pvt. Ltd., Jhaveri Bldg., 348-352, A. Rehman St., Bombay 400003.

Tamil Nadu

International Lighting Ind., 26, Arumugam St., Madras 600001.

Uttar Pradesh

Hind Lamps Ltd., Shikohabad 205135.

The Miniature Bulb Industries (India) Ltd., 131, Kanwali Rd., Dehra Dun.

West Bengal

Associated Electricals Ind. (I) Ltd., Crown House, 13, R. Mukherjee Rd., Calcutta 700001.

Bharat Electricals Ind. Ltd., 19, R. Mukherjee Rd., Calcutta 700001.

Dazzle Products Ltd., 138, B. R. B. Basu Rd., Calcutta 700001.

Deepsun Ind. Corpn., 36, Ezra St., Calcutta 700001.

Electric Lamps (India) Pvt. Ltd., 1, Tartolla Rd., P.O. Garden Reach, Calcutta 700024.

J. K. Dey & Sons, 13, Old China Bazar St., Calcutta 700001.

Jayanta Electric Lamp Works, 33/4, M. Pukur Rd., Calcutta 700001.

Lite Eng. Ind., 19, Pollock St., Calcutta 700001.

THE AHMEDABAD ELECTRICITY COMPANY LTD.

★

Registered Office :

No. 83, "Advent", General Bhonsle Marg,
Backbay Reclamation, Bombay 400 021.

★

Head Office Administration Department :

No. 83, "Advent", General Bhonsle Marg,
Backbay Reclamation, Bombay 400 021.
Grams: "AELEC". *Phones:* 259867/259885.

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Local Office :

Electricity House, Lal Darwaja, P.O. Box 37,
Ahmedabad 380 001.
Phone : 24261. Grams : "ELECTRIC".

(Ref. Ahmedabad Section)

ELECTRICAL LAUNDRY APPARATUS

Maharashtra

Bajaj Electricals Ltd., 45-47, V. Nariman Rd., Bombay 400001.

ELECTRICAL LIFTS

Best & Co. Pvt. Ltd., 13/15, North Beach Rd., Madras 600001.

Electric Construction & Equipment Co. Ltd., K. Singhee Rd., Calcutta 700002.

Otis

OTIS ELEVATOR CO. (INDIA) LTD.

Registered Office:
Gateway Building, Apollo Bunder,
Bombay-400 039.

P. L. Vahi, *Managing Director.*
L. K. Negandhi, *Secretary.*
B. W. Khanorkar, *Marketing Manager.*
Telephones: 211050, 211058/59.

●

Factory & Factory Office:
M. N. Nair, *Works Manager.*
Akurli Road, Kandivli East, Bombay 400 067.
Telephones: 693346 (4 lines), 693806.

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Bombay District Office:
S. S. Sujan, *Bombay Dist. Manager.*
Rehem Mansion No. 1,
42, Shahid Bhagatsingh Road, Bombay 400 039.
Telephones: 214231/32.

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Calcutta District Office:
S. Mittra, *Calcutta Dist. Manager.*
Jeevan Deep, 1, Middleton Street, Calcutta 700 016.
Telephones: 442402/03, 447330.

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New Delhi District Office:
N. Swaroop, *New Delhi Dist. Manager.*
Jeevan Deep Building, 8, Parliament Street,
New Delhi 110 001.
Telephones: 310970, 310452.

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Madras District Office:
J. M. Bhavnagarwala, *Madras Dist. Manager.*
Bharat Insurance Building, 1/18, Anna Salai,
Madras 600 002.
Telephones: 86021/2.

Otis Elevator Co. (India), Ltd., Gateway Bldg., A. Besant Rd., Bombay 400039.

ELECTRICAL TOOLS & STAMPINGS

Devidayal Stainless Steel Ind. Pvt. Ltd., Darukhana, Reay Rd., Bombay 400010.

ELECTRICAL WIRES, CABLES & ACCESSORIES

Asian Cables Corpn. Ltd., Nirmal, Nariman Pt., Bombay 400020.

Devidayal Electronics & Wires Ltd., Gupta Mills Estate, Reay Rd., Bombay 400010.

Wandleside National Conductors Ltd., Ind. Estate, Lalbaug, Bombay 400012.

(Also see Wires, Cables and Accessories in this list.)

ELECTRONIC COMPONENTS

Andhra Pradesh

Arjuna Electronics Pvt. Ltd., Basheer Bagh, Hyderabad 500001.

Electronics Corpn. of India Ltd., Ind. Devpt. Area, Cherlapalli, Hyderabad 500040.

Ferro Electrics Pvt. Ltd., Uppal, Hyderabad 500039.

Instrument Techniques Laboratory, B-2, Co-op. Ind. Estate, Balanagar, Hyderabad 500037.

Varicon Pvt. Ltd., B-37, Ind. Estate, Sanatnagar, Hyderabad 500001.

Delhi

Atlas Radio & Electronic Ind. Pvt. Ltd., SA/7, Ansari Rd., Daryaganj, Delhi 110006.

Bolton Ind. Corpn., A-31, Kailash Colony, New Delhi 110048.

Continental Device India Ltd., C-120, Naraina Ind. Area, New Delhi 110028.

Philips India Ltd., 68, Najafgarh Rd., New Delhi 110015.

DEVIDAYAL STAINLESS STEEL INDUSTRIES PRIVATE LTD.

STAMPINGS DIVISION

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Factory & Office :
Kanjur Village Road, Bhandup,
Bombay 400078.
Phones : 582514-15-16.

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Head Office:
Darukhana, Reay Road,
Bombay 400010.
Phone : 395041.

Manufacturers of :
Electrical Stampings.

Stead Electronic Ind., 17-U.A., Jawahar Nagar, Delhi 110007.
Telefunken Ind. Ltd., G-4, N. D. South Ext. I, New Delhi 110049.
Union Radio & Appliances Pvt. Ltd., K-3, South Ext., Part I, New Delhi 110049.

Gujarat

Alchemie Pvt. Ltd. ,Opp. Potatia Talao, Saraspur, Ahmedabad 380018.
Baroda Electronics Ind. Pvt. Ltd., 78, Chhani Rd., Vadodara 390002.
Luster Ceramics Pvt. Ltd., 4/19, Ind. Estate, Gorwa Rd., Vadodara 390003.
Parry Engg. & Electronics Pvt. Ltd., Opp. Jain Temple, Gandhi Rd., Ahmedabad 380001.
Standard Electronics Ind. (Gujarat) Pvt. Ltd., 81, Chhan Rd., Opp. Jakat Naka, Vadodara 390002.
Twinkle Electronics, CIB/3, GIDC Makarpura Ind. Estate, Makarpura, Ahmedabad 380008.

Haryana

Continental Device India Ltd., 14/5, Mathura Rd., Faridabad.

Karnataka

Bharat Electronics Ltd., Jalahalli Post, Bangalore 560013.
Hegde & Golay Pvt. Ltd. Kanakapura Rd., Bangalore, 560011.
Kamal Ind., 2-7, M. Gandhi Rd., Bangalore 560001.
Nippon Electronics (India) Pvt. Ltd., Bull Temple Rd., Bangalore 560019.
Sarit Manufg. & Research Centre, 5/3, Bore Bank Rd., Bangalore 560006.

Kerala

O/E/N India Ltd., 19/88-B, Kaloor Rd., Cochin 682018.

Maharashtra

Advani-Oerlikon Pvt. Ltd., Dr. E. Shirodkar Rd., Parel, Bombay 400012.
Allied Electronics Corpn., 94, Kansara Chawl, Bombay 400002.
A. Lunar Engg., Maroba Nivas, 210 A-B, Girgaon, Bombay 400004.
Applied Electronics Pvt. Ltd., Aplab House, Plot No. A-5, Wagle Ind. Estate, Thana 400604.
Asha Bros. Pvt. Ltd., 10/14, Shamset St., Bombay 400002.
Asian Electronics Ltd., Handloom House, 321, Dr. D. Naoroji Rd., Bombay 400001.
Bright Star Manufg. Works, Aroon Ind. Estate, Malad, Bombay 400064.
Dattatray Ind. Pvt. Ltd., 691/A, Poona-Satara Rd., Pune 411009.
Dominion Radios, 15, New Queens Rd., Bombay 400004.
Electric Radio and Sound Corpn., 394–B, Lamington Rd., Bombay 400004.
Electronic Products, Bombay Mutual Annexe, Gunbow St., Bombay 400001.
Elpro International Ltd., Chinchwad, Pune 411019.
Excella Electronics, 54, Annapurna Ind. Estate, 46, Tilak Rd., Ghatkopar (East), Bombay 400077.
Goyal Electronic Ind., 319, Prasad Chambers, Near Roxy Cinema, Bombay 400004.
Hindustan Conductors Pvt. Ltd., 24, B. S. Abdulla Rd., Bombay 400001.
I B M World Trade Corpn., Kurla Andheri Rd., Bombay 400072.

DEVIDAYAL ELECTRONICS AND WIRES LIMITED

Gupta Mills Estate, Reay Road,
Bombay 400 010.

Telegrams : TRIMEL. Telex : TRIMEL 2741.
Telephones : *Office* : 391831 (5 lines); *Factory* : 593471.

Manufacturers of :

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ELECTRONIC COMPONENTS

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Pen Stylus Needles and Needle Electrode.

A. LUNAR ENGINEERING

Moroba Nivas, 210 A-B, Girgaon,
Bombay 400 004.

Phones :
Office : 381073 *Res.* : 381870

INBELEC, electronic components divn. of Philips India Ltd., Band Box House, Dr. A. Besant Rd., Worli, Bombay 400018.

Indian Engg. Co., 132, Dr. A. Besant Rd., Worli Naka, Bombay 400018.

Khandelwal Herrmann Electronics Pvt. Ltd., Khandelwa Ind. Estate, Bhandup, Bombay 400078.

Monga Electronics Pvt. Ltd., Mamlatdarwadi Rd., Malad (West), Bombay 400064.

Mulchandani Elec. & Radio Ind. Ltd., Sukh Sagar, Hughes Rd., Bombay 400007.

Murphy India Ltd., Dr. Shirodkar Rd., Parel, Bombay 400012.

National Radio & Electronics Co. Ltd., Ewart House, Bruce St., Bombay 400001.

Permanent Magnets Ltd., Sylvester Bldg., 20, Old Custom House Rd., Bombay 400001.

Rescon Manufg. Co. Pvt. Ltd., Hague Bldg., 9, Sprott Rd., Ballard Estate, Bombay 400038.

Ruttonsha International Rectifier Pvt. Ltd., International House, L. B. Shastri Marg, Vikhroli, Bombay 400083.

Sahney Kirkwood Commutators Pvt. Ltd., 27, Kirol, Vidyavihar, Bombay 400084.

Sanes Vazicon Pvt. Ltd., A-2, Bhosari Ind. Estate, Pune Nasik Rd., Pune 411026.

Siemens India Ltd., 134A, Dr. A. Besant Rd., Bombay 400018.

Semiconductors Ltd., Ahmednagar Rd., Mile 4/5, Pune 411014.

Symtronics, 1482, Sadashiv, Tilak Rd., Pune 411030.

Uranus Electrotechnik Pvt. Ltd., Krishna Nivas, Queen's Rd., Bombay 400004.

SYMTRONICS

ELECTRONIC CONTROL SYSTEMS

1482, Sadashiv, Tilak Road, Opp. S. P. College Post Office,
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* Sequence Controllers for Boilers.
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* Speed Sensers and Tachogenerators.
* Digital Counters.
* Flame failure Relays.
* Process Timer for Sugar Machinery.
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* Diesel Engine Control Panels.
* Automatic Mains failure Panels.
* Traffic Control Equipment
* Telecontrol Stations.
* Solid State Anunciators.

Representatives at :
Bombay, Calcutta, Bangalore, Madras, Delhi.

Vibronics Pvt. Ltd., 4, Kurla Ind. Estate, Agra Rd., Ghatkopar, Bombay 400086.

Rajasthan

Gem. Electronics & Elec. Pvt. Ltd., Bagaria Bhavan, C. Scheme, Jaipur 362001.

Tamil Nadu

M. R. Electronic Components Ltd., 9, Mount Rd., Madras 600002.

West Bengal

Elvoc Pvt. Ltd., 36, Panditia Rd., Calcutta 700029.

Indo-Burma Petroleum Co. Ltd., Gillander House, N. Subash Rd., Calcutta 700001.

Ubah Electrical Instruments, 105, Apollo St., Bombay 400001.

Metroark Pvt. Ltd., P.B. 16903, Calcutta 700034.

Morris Electronics Pvt. Ltd., P-13, Jadu Colony, Calcutta 700034.

ELECTRONIC TIMERS

Shah Electronics, 1117, Prasad Chambers, Opera House, Bombay 400004.

ELECTROPLATING MATERIALS

Canning Mitra Phoenix Ltd., 5, Convent St., Bombay 400001.

Electro Ind. Pvt. Ltd., Ind. Area, Pratapnagar, Vadodara 390004.

Machsons Pvt. Ltd., 40/B, Milan, 87, Tardeo Rd., Bombay 400034.

Mathuradas Bros. & Co., 76/78, Thakurdwar Rd., Bombay 400002.

Mica Ind., 4, Parvati Ind. Estate, Sun Mill Rd., Bombay 400013.

Precious Electro Chemicals Pvt. Ltd., Stadium House, Churchgate, Bombay 400020.

Saifee Electroplating Works, 139, 1. Rahimtoola Rd., Bombay 400003.

Sonak Ind., 37, Doctor's Comp., Parel Cross Rd., Bombay 400012.

Weldun Engg. & Trading Co., 71A, N. Subhash Rd., Calcutta 700001.

ELECTROPLATING PLANTS

Grauer & Weil India Ltd., Sukh Sagar, Hughes Rd., Bombay 400007.

ELEVATORS

(See under Electrical lifts in this list).

EMBOSSING MACHINES

Bradma of India Ltd., Lakshmi Bldg., Sir P. Mehta Rd., Bombay 400001.

EMERGENCY LIGHT

Indian Technological Products, 21, Babar Rd., New Delhi 110001.

ENAMELWARE

Andhra Pradesh

The Deccan Porcelain & Enamel Works Ltd., 2707, Bakaram, Mushirabad, Hyderabad 500020.

Nellore Enamels, Ind. Estate, Nellore 524001.

Kerala

Travancore Enamel Ind. Ltd., Kundara.

Maharashtra

Anant Machinery Pvt. Ltd., Plot No. 3 B, Chinchwad Ind. Area, Chinchwad, Pune 411019.

Lans Metal & Enamel Works Pvt. Ltd., Kasturchand Mills Estate, Dadar, Bombay 400028.

Ogale Glass Works Ltd., Ogalewadi, Satara Dist.

Pioneer Enameling Works, Lakshmi Bldg., Sir P. Mehta Rd., Bombay 400001.

Tamil Nadu

Madras Enamel Works Ltd., 65, Sydenham Rd., Madras 600003.

West Bengal

A. K. Sarkar Ind. Pvt. Ltd., 32-1, Dalhousie Sq., Calcutta 700001.

Bengal Enamel Works Ltd., 41, Chowringhee Rd., Calcutta 700016.

Bharat Tin & Enamel Co., Pvt. Ltd., 2A, Shakespeare Sarani, Calcutta 700016.

Blue Star Enamelware Co. Pvt. Ltd., 4, Dalhousie Sq., East, Calcutta 700017.

Sur Enamel & Stamping Works Ltd., 9, Middle Rd., Calcutta 700001.

ENGINEERS—STRUCTURAL

Indian Commerce & Ind. Co. Pvt. Ltd., 95, Broadway, Madras 600001.

Industrial Agencies Corpn., Bhawana, 422, Cadell Rd., Bombay 400025.

ENGINEERS—TEXTILES

Eastern Card Clothing Co. Pvt. Ltd., Dr. A. Nair Rd., Bombay 400011.

ENGINES — DIESEL

(See 'Diesel Engines' in this list).

ENGINES — OIL

Patel Manufacturers, P. Box 510, Rajkot 360001.

ESSENCES

A. Boake Roberts & Co. India Ltd,. 1-5, Seven St., St. Thomas Mount, Madras 600016.

Asian Chemical Works, 124-26, Princess St., Bombay 400002.

Naarden Chemical Works (India) Ltd., Plot No. 6, Saki Naka, Bombay 400076.

EXPLOSIVES

Indian Detonators Ltd., Kukatpalli, P.O. Sanatnagar, Hyderabad 500018.

Indian Explosives Ltd., 34, Chowringhee, Calcutta 700016.

Sharda Industrial Engg. Works, 8, Siddapura Ind. Est., Masrani Lane, Halav Pool, Kurla, Bombay 400070.

FABRICATION—STEEL

(See under Steel Fabrication in this list).

FANS

Haryana

American Universal Electric (I) Ltd., Model Town, Faridabad 121001.

Maharashtra

Almonard Pvt. Ltd., off Saki-Vihar Rd., Bombay 400072.

Emco Elektra (Pvt.) Ltd., 94, Medows St., Bombay 400001.

Matchwel Electrical (I) Ltd., Off Nagar Rd., Pune 411014.

Rallis India Ltd., 21, Raveline St., Bombay 400001.

Punjab

Beegee Corpn. Pvt. Ltd., 25, Factory Area, Patiala 147001.

Tamil Nadu

Best & Co. Pvt. Ltd., 13/15, North Beach Rd., Madras 600001.

West Bengal

Bharat Electrical Ind. Ltd., 19, R. Mukherjee Rd., Calcutta 700001.

Calcutta Fan Works Pvt. Ltd., 30, Chowringhee Rd., Calcutta 700016.

Clyde Fan Co. Pvt. Ltd., Rai Bahadur Rd., Behala, Calcutta 700034.

General Electric Co. of India Ltd., 6, Chittaranjan Ave., Calcutta 700013.

G. T. R. Company Pvt. Ltd., 37, Dum Dum Rd., Calcutta 700030.

Jay Engineering Works Ltd., 183-A, Prince A. Shah Rd., Calcutta 700031.

Khaitan Fans and Appliances Ltd., 18, Rabindra Sarani, Calcutta 700001.

Marshall Sons & Co. (India) Ltd., 33/1, N. Subash Rd., Calcutta 700001.

Orient General Ind. Ltd., 14, Radha Bazar Lane, Calcutta 700001.

Pandy Ind. Pvt. Ltd., 202/2, N. Subash Rd., Calcutta 700047.

Suburban Electrical Engg. Co. Pvt. Ltd., 34 A, Ananda Palit Rd., Calcutta 700014.

FANS—INDUSTRIAL & BLOWERS

Air Conditioning Corp. Ltd., 17, Tartolla Rd., Calcutta 700001.

A. Stock & Co. Ltd., 3, Camac St., Calcutta 700016.

Andrew Yule & Co. Ltd., 3 Clive Rd., Calcutta 700001.

American Refrigeration Co. Ltd., 12-D, Park St., Calcutta 500001.

Forge & Blower Co., Naroda Rd., Ahmedabad 380002.

General Electric Co. of India Ltd., Magnet House, 6, Chilt Avenue, Calcutta 700001.

New Standard Engg. Co. Ltd., Caroll Rd., Bombay 400013.

S. F. Products India Ltd., P. Box No. 411, Calcutta 700011.

Wesman Engg. Co. Pvt. Ltd., 1/2, Allenby Rd., Calcutta 700001.

FASTENERS—INDUSTRIAL

Andhra Pradesh

Screwmans, B.I. Unit, Ind. Estate, P.O. Vijayawada 520007.

Bihar

Indian Steel & Wire Products Ltd., P.O. Indranagar Jamshedpur 831001, Singhbhum Dist.

Gujarat

Industrial Fasteners of Gujarat Pvt. Ltd., Opp. Makarpura Rly. Station, Maneja, Vadodara Dist.

Vekaria Ind., P.B. 16, Gandhidham 370201, Kutch.

Haryana

Jagatjit Engineering Works Pvt. Ltd., 17/6, Mathura Rd., Faridabad 121001.

Karnataka

Emcee Automatics, 32, Small Scale Ind. Area, 'V' Block, Rajajinagar, Bangalore 560010.

Sri Venkateswara Enterprises, B-69, H.M.T. Ind. Estate, Bangalore 560031.

Maharashtra

Agarwal Steel Ind., Kasara St., Darukhana, Bombay 400010.
Avdel (I) Pvt. Ltd., 409, Himalaya House, Palton Rd., Bombay 400001.
Bright Bolt Pvt. Ltd., Nanjee Bldg., 17-B, Horniman Circle, Bombay 400001.
E. A. Currim Pvt. Ltd., 97, Apollo St., Bombay 400001.
Fit Tight Nuts & Bolt Ltd., Old Ashram, Andheri Kurla Rd., Andheri, Bombay 400069.
Hindustan Steel Ind., 4, Govt. Ind. Estate, Kandivli West, Bombay 400067.
Industrial Components, Medows House, Medows St., Fort, Bombay 400001.
Madhu Snap Fastners Manufg. Co. Pvt. Ltd., Sanghavi Chambers, 27, Ghogha St., Bombay 400001.
Manco Ind., Shed No. F, Sainath Ind. Estate, Off Aarey Rd., Goregaon East, Bombay 400063.
Precision Fasteners Ltd., New India Centre, 12th F., (South Wing), 17, Cooperage Rd., Bombay 400001.
Precision Steel Fasteners, S. No. 209, Bombay-Poona Rd., Pimpri, Pune 411018.
Precision Taps & Dies Pvt. Ltd., 17, Gunbow St., Fort, Bombay 400001.
Sang Fasteners, Plot No. A-167, Wagle Estate, Thana 400604.
Sheth Manufg. Works, 103, Bhajipala Lane, Bombay 400003.
Silkaans, Marathe Udyog Bhavan, New Prabhadevi Rd., Bombay 400025.
Simmonds Marshall Ltd., Savoy Chambers, 5, Wallace St., Fort, Bombay 400001.
Swastik Metal Ind., 168, C.S.T. Rd., Kalina, Bombay 400055.

Punjab

Jagatjit Engineering Works, Factory Area, P.B. 20, Kapurthala.
New Pensla Ind., 5/131, Ind. Area, Jullundur 144004.
Priesto Ind., A-6, Ind. Estate, Ludhiana 141003.
Universal Screw Factory Pvt. Ltd., G.T. Rd., Chheharta, Amritsar.

Tamil Nadu

Gowrihouse Metal Works, P.B. 13, Rajapalayam.
Needle Ind. (I) Ltd., P.O. Ketti, Nilgiris.
Rambal Pvt. Ltd., Lattice Bridge Rd., P.B. 1101, Madras 600041.
Southern Ind. Corpn. Ltd., 99, Armenian St., Madras 600001.
Sundram Fasteners Ltd., 37, Mount Rd., Madras 600006.

West Bengal

Agarwal Ind., 1, Bonfield Lane, Calcutta 700001.
Ashok Traders, 2 India Exchange Place, 2nd Fl., Calcutta 700001.
Asoka Mercantile Corpn., 10/1, Ganpat Rai Khemka Lane, Lilluah, Howrah.
Bolts, Nuts and Forging Co., 40, Strand Rd., Calcutta 700001.
Forging & Allied Products, 5/6/2, Dharmatalla Rd., Salkia, Howrah.
Ganesh Trdg. Co., 36, Ezra St., Calcutta 700001.
G. T. Trading Corpn., 1, Bonfield Lane, Calcutta 700001.
Guest, Keen, Williams Ltd., 97, Andul Rd., Howrah 711003.
Howrah Iron & Washers Manufg. Works, 77/13, Benares Rd., Howrah 711001.
India Fasteners, 115, Howrah Rd., P.O. Salkia, Howrah.
Indian Eyelet Ind., 33 N. Subash Rd., Calcutta 700001.
Khan Pal Chowdhury & Co. Pvt. Ltd., 71/A, N. Subash Rd., Calcutta 700001.
Mahabir Steel Ind., 23A, N. Subash Rd., Calcutta 700001.
M. S. Ind., P-10, New Howrah Bridge Approach Rd., Calcutta 700001.
Rana Engg. & Foundry Works, 57-B, N. Subash Rd., Calcutta 700001.
Sajjan Ind. Corpn., P-18, New C.I.T. Rd. (Bina Estate), Scheme LVII, Calcutta 700012.
Saroj Iron & Steel Co. Pvt. Ltd., 85/1, Upper Chitpur Rd., Calcutta 700006.
Shree Krishna Pvt. Ltd., 20, Mangoe Lane, Calcutta 700001.
Shree Lakshmi Iron Co., 222, G. Ghosh Rd., P.O. Belurmath 711202, Howrah.
Standard Screw Ind. 34, N. Subash Rd., Calcutta 700001.
Steel & Allied Products Ltd., 2/1, Hussain Shah Rd., Calcutta 700023.
Thisa (I.) Pvt. Ltd., 1 & 3, Brabourne Rd., Calcutta 700001.

FELTS

Feltex India, 29, Muktaram Babu St., Calcutta 700007.

FERRO-ALLOY

Karnataka

Sandur Manganese & Iron Ores Ltd., Lohadri Bhavan, Via Sandur, Bellary Dist.

Maharashtra

Electro Metallurgical Works Ltd., 20, Sir P. Mehta Rd., Bombay 400001.
Ferro Alloys Corpn. Ltd., Shreeram Bhawan, Tumsar.

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Khandelwal Ferro Alloys Ltd., 'Khandelwal Bhawan', 166, Dr. D. Naoroji Rd., Bombay 400001.

Tata Iron & Steel Co. Ltd., New India Assurance Bldg., M. Gandhi Rd., Bombay 400001.

Universal Ferro & Allied Chemicals Ltd., Liberty Bldg., New Marine Lines, Bombay 400020.

Orissa

Jeypore Sugar Co. Ltd., Rayagada, Koraput Dist.

The Indian Metals & Ferro Alloys Ltd., Bomikhal, P.O. Rasulgarh, Bhubaneswar 751001.

FERTILISERS

Andhra Pradesh

Andhra Sugars Ltd., Venkatarayapuram, Tanuku, West Godavari Dist.

Coromandal Fertilisers Ltd., 126, S. Devi Rd., Secunderabad 500003.

Fertilisers & Ind. Corpn., Main Rd., Nidadavole, West Godavari Dist.

International Ore & Fertilizer (I) Pvt. Ltd., 66, Rashtrapathi Rd., Secunderabad.

Jayalakshmi Fertilisers, Venkatarayapuram, Tanuku, West Godavari Dist.

Assam

Assam Agra Ind., Development Corpn. Ltd., Ulbari, Dist. Gauhati.

Chandigarh

Northern India Fertilisers & Agri. Supply Corpn., 85, Sector 18-A, Chandigarh.

Tridhara Krishi Sampada Pvt. Ltd., Fertiliser Division, 1290, Sector 21-B, Chandigarh.

Delhi

AMOCO India Inc., Herald House, 5 A, B. Zafar Marg, New Delhi 110001.

Fertilizer Corpn. of India Ltd., F 43, South Ext-Area, Part I, Ring Rd., New Delhi 110049.

Indian Explosives Ltd., Himalaya House, 23, K. Gandhi Marg, New Delhi 110001.

Japan Urea Centre, 10-B, Rajendra Park, Pusa Rd., New Delhi 110060.

Shriram Chemical Ind., Naaz Bldg., 1, Jhandewalan Estate, New Delhi 110055.

Goa

Zuari Agro Chemicals Ltd., Govinda Bldg., P. B. 250, Panaji.

Gujarat

Adarsh Chemicals & Fertilisers Ltd., Udhna, P.O. Baroda Rayon, Dist. Surat.

Alembic Chemical Works Co. Ltd., Alembic Rd., Vadodara 390003.

Anil Starch Products Ltd., Anil Rd., P. B. 1062, Ahmedabad 380002.

Chemfert Products & Services, 68/3, Prospect Chambers, Palace Rd., Vadodara.

Gujarat State Fertilisers Co. Ltd., P.O. Fertiliser Nagar, Vadodara.

Kisan Bros., 311, New Cloth Market, Ahmedabad 380002.

Haryana

Mixed Fertilisers Corpn., R-253, Model Town, Panipat.

Karnataka

Chamundi Chemicals & Fertilisers Ltd., Chamundi Bldgs., P. O. Metagalli.

C. Gurusiddappa Sons, Karnataka Fertilisers, New Tharagupet, Bangalore.

Manjunatha Chemicals & Fertilisers, 121/4th Cross, Gandhi Nagar; Bangalore 560025.

Mangalore Chemicals & Fertilisers Ltd., Manor House, 5, Brunton Cross Rd., Bangalore 560025.

Kerala

Fertilisers & Chemicals Travancore Ltd., P. O. Udyogamandal, Alwaye.

South India Chemicals & Fertilisers Ltd., Manorama Bldg., P.O. Kottayam.

Madhya Pradesh

M. P. Chemical Corpn., 78, Navlakha Rd., Sanyogita Ganj, Indore 452001.

Maharashtra

Associated Cement Cos. Ltd., Central Research Station, Shastri Marg, Wagle Ind. Estate, Thana 400604.

Bharat Fertiliser Ind. Ltd., 12, Nanabhai Lane, Near Flora Fountain, Fort, Bombay 400001.

Borax Morarji Ltd., M. Gandhi Rd., Ambarnath, Dist. Thana.

C. Dhanvantrai & Co., Lentin Chambers, 36, Dalal St., Bombay 400001.

Chembur Bone & Fertiliser Co. Pvt. Ltd., 7, Kumta St., Ballard Estate, Bombay 400038.

Dewa Fertilisers & Feeds Ltd., Eucharistic Cong. Bldg., 5, Convent St., Bombay 400001.

Dharamsi Morarji Chemical Co. Ltd., Prospect Chambers, 317-21, Dr. D. Naoroji Rd., Bombay 400001.

Granulated Fertilizers & Feeds Pvt. Ltd., Mody Chambers, 319/21, Khara Bazar, Bombay 400009.

Harshadray Pvt. Ltd., Jiji House, Ravelin St., Bombay 400001.

Kamdhenu Chemicals & Fertilisers Ind., 379, Bhawan Peth, Pune 411002.

Kathiawar Fertiliser Manufg. Co. Pvt. Ltd., 52/4, V. Patel Rd., Bombay 400004.

Maharashtra Agro-Ind. Devpt. Corpn. Ltd., Rajan House, Near Century Bazar, Prabhadevi, Bombay 400025.

Mulchand M. Choksey & Co., 19-21, Hamam St., Bombay 400001.

Pankaj Chemicals & Fertilisers, 211, Samuel St., Vadgadi, Bombay 400003.

Potash Fertilisers Ltd., 6, Lotus Court, P. B. 524, J. Tata Rd., Bombay 400001.

Rallis India Ltd., Rallis House, 21, Ravelin St., Bombay 400001.

Sepulchre Bros (I) Ltd., Jai Bldg., Dr. D. Naoroji Rd., Bombay 400001.

Shah Moteejee Meghajee, 122, Bhawani Peth, Pune 411002.

Sunrise Manures & Chemicals, 81314, Bhavani Peth, Pune 411002.

Voltas Ltd., 19, Graham Rd., Ballard Estate, Bombay 400038.

Orissa

Orissa Fertilisers & Chemicals Ltd., Main Rd., Rourkela-769004.

Rajasthan

Hindustan Copper Ltd., Khetri Copper Project, P. O. Khetri Nagar, Jhunjhune Dist.

Hindustan Zinc Ltd., 6, New Fatehpura, Udaipur.

Jeevan Fertilisers & Chemicals Co. Pvt. Ltd., 42, Large Scale Ind. Area, Kota-3.

Tamil Nadu

Blue Mountain Estates & Industries Ltd., Kothari Bldgs., 20, Nungambakkam High Rd., Madras 600034.
Coimbatore Pioneer Fertilisers Ltd., M. G. Pudur, Coimbatore Dist.
E. I. D. Parry Ltd., Dare House, P. B. 12, Madras 600001.
Indian Potash Ltd., 8/9, T. Chetty St., Madras 600001.
Jai Bharat Chemicals & Fertilisers Co., 5/141, Mount Rd., Madras 600006.
Krishna Ind. Corpn. Ltd., Ramakrishna Bldgs., 38, Mount Rd., Madras 600006.
Madras Fertilisers Ltd., Manali, Madras 600068.
Mysore Fertiliser Co., Andhra Bank Bldg., 6, Linghi Chetty St., Madras 600001.
Peninsular Bone Mill, 28/29, Coral Merchant St., Madras 600001.
Premier Fertilisers Ltd., 151, Mount Rd., Madras 600002.
Samy Fertiliser Co., 55, Sathy Rd., Erode 638001.
Scientific Fertiliser Co. Pvt. Ltd., Sundarsanam, P. B. 744, Ponnurangam Rd., R. S. Puram, Coimbatore.
Southern Petrochemical Ind., Corpn. Ltd., 24, Whites Rd., Madras 600014.
Yercaud Coffee Curing Works Ltd., 3/22, Kondapanaickenpatty, P. O. Kannankurichi, Salem Dist.

Uttar Pradesh

U. P. State Agro Ind. Corpn. Ltd., 22, Vidhan Sabha Marg, Lucknow.

West Bengal

A. Talukdar & Co. (Fertilisers) Pvt. Ltd., 15, Clive Row, Calcutta 700001.
Brahmaputra Fertilisers & Distributors Pvt. Ltd., 2, Church Lane, Calcutta 700001.
B. C. Paul & Co., 18, N. Subhas Rd., Calcutta 700001.
Ghosal Banerjee & Co., 23, Strand Rd., Calcutta 700001.
Jardine Henderson Ltd., 4, Clive Row, Calcutta 700001.
Jay Shree Chemicals & Fertilisers, Bose Rd., Khardaly, 24 Parganas.
Khaitan Sons & Co. (Manure) Pvt. Ltd., 26, Chittaranjan, Ave., Calcutta 700012.
Phosphate Co. Ltd., 14, N. Subash Rd., Calcutta 700001.
R. C. Mitter & Sons, Ramesh Kuthi, 54, R. Bose St., Calcutta 700003.
R. N. Chatterjee & Co., 135, Canning St., Calcutta 700001.
Shaw Wallace & Co. Ltd., 4, Bankshall St., Calcutta 700001.
Universal Fertiliser Co. Pvt. Ltd., 2, Church Lane, Calcutta 700001.

FIBRE GLASS

Bhagwati Glass, P.O. Sahibabad, Ghaziabad Dist., U.P.
Hindustan Pilkington Glass Works Ltd., Hindustan Bldg., 4, Chittaranjan Ave., Calcutta 700013.
Indoglass Pvt. Ltd., 407, Arun Chambers, Tardeo Rd., Bombay 400034.
Sahyadri Enterprises, M. H. Patrawala Ind. Estate, 20, Dr. E. Moses Rd., Mahalaxmi, Bombay 400011.

FIBREGLASS TANKS & REACTION VESSELS

Polyplast, Thakore Estate, Khalai Village, Vidyavihar (West), Bombay 400086.

FILM STRIP PROJECTORS

Andhra Scientific Co. Ltd., Masulipatnam 521001.
Ordnance Factory, Dehra Doon 248001.

FILTERS

Fimcron India Pvt. Ltd., M-97, Greater Kailash, New Delhi 110048.
Fritz & Singh Pvt. Ltd., B-29/B, Kailash Colony, New Delhi 110048.
John Fowler India Ltd., Marshall's Bldg., S. Vallabhdas Marg, Bombay 400001.
Kirloskar Filters Pvt. Ltd., Kothrud, Pune 411029.
Otoklin Filters of India, 1006, Prasad Chambers, Near Roxy Cinema, Bombay 400004.
Permanent Papers, 187, S. Dewji St., Bombay 400003.
Shar-Lee Filtorites Pvt. Ltd., 52, Okhla Ind. Estate, New Delhi 110020.
Shavo Norgren India Pvt. Ltd., 9, Wallace St., Bombay 400001.
Sparkler Eastern Pvt. Ltd., 35, Chittaranjan Ave., Calcutta 700012.
Standard Filter Concern, 16/1, Nilmoni, 12, J. Mohan Ave., Calcutta 700006.

FILTER RODS FOR CIGARETTES

Filtrona India Ltd., Killick House, Home St., Bombay 400001.

FINS & FINNED TUBES

Nerkar & Associates, 4, Municipal Ind. Est., Jacob Circle, Bombay 400011.

FIRE BRICKS & REFRACTORIES

Mahavir Refractories Corpn., Maker Bhavan No. 2, New Marine Lines, Bombay 400020.
Shree Laxmi Ceramic Ind., National Highway No. 8-A, Morvi 363642.
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FIRE FIGHTING EQUIPMENT

Delhi

Delhi Garage Pvt. Ltd., Connaught Place, New Delhi 110001.
DGL Pvt. Ltd., 14-M Block, Connaught Cir., New Delhi 110001.

Gujarat

Abdul Samad Abdul Kadar & Sons, 1839, Panchpalli, Kalupur, Ahmedabad 380001.
Newage Ind., Ambawadi Ind. Estate, Surendranagar 363001.
Shah Bhogilal Jethalal & Bros., Gheekanta Rd., Near Liberty Cinema, Ahmedabad 380001.
Swastik Ind. Corpn., Udyognagar, Bhavnagar 364001.

Kerala

Metropolitan Engg. Co., Power House, Trivandrum 695001.

Maharashtra

Asia Engg. Co., 39, Nagdevi St., Bombay 400003.
Avon Services (Prod. & Agen.) Pvt. Ltd., Baldota Bhavan, 117, M. Karve Marg, Bombay 400020.
Bharat Engg. Works, 50, Nagdevi St., Shripal Bhuvan, Bombay 400003.
Bharat Textile Ind., Darukhana, Bombay 400010.
CO_2 Fyre Fyter Co., Sussex Cross Lane, Bombay 440027.
Fire Equip. Corpn., Interlink Ind. Estate, Caves Rd., Bombay 400060.
Fyrefo Pvt. Ltd., Dhannur, Sir P. Mehta Rd., Bombay 400001.
Indian Fire Engg. Co., S. Vivekanand Rd., Bombay 400050.
Indian Fire Equip. Corpn., 79, Mohamadi House, 3330 Mohamedali Rd., Bombay 400003.
Industrial Com. Corpn., 157, N. Dhuru St., Bombay 400003.
Jainco Ind., 64, Nizam St., Bombay 400003.
Kooverji Devshi & Co. Pvt. Ltd., 105 Arun Chambers, Tardeo Rd., Bombay 400034.
Laxmi Sprinklers, 8, Prabhadevi Ind. Estate, Bombay 400028.
Mather & Platt Ltd., 8, Graham Rd., Ballard Estate, Bombay 400038.
Merryweather Fire Equip. Corpn., 805, Prasad Chambers, Opera House, Bombay 400004.
National Fire Equip. Co., 11, Bank St., Bombay 400001.
New Engg. Corpn., 50, Nagdevi St., Shripal Bhuvan, Bombay 400003.
Oriental Metal Pressing Works Pvt. Ltd., Worli, Bombay 400018.
Radiant Fire Prot. Engrs., Commerce Centre, Tardeo, Bombay 400034.
Rockhard Fire Eng., 25, Bank St., Bombay 400001.
United Engg. Co., 67-69, Mohamedali Rd., Dada Manzil, Bombay 400003.
Vijay Mach. Stores, 159, P. D'Mello Rd., Bombay 400001.
Zenith Fire Services, 127/129, Mody St., Bombay 400001.

Tamil Nadu

Robert Mclean & Co. Ltd., 32-B, Greams Rd., Madras 600006.

Uttar Pradesh

Eastern Ind. India (Pvt.) Ltd., 7/191, Swarupnagar, Kanpur 208001.

West Bengal

Allan Richards & Co., 5/6, Fancy Lane, Calcutta 700001.
Annapurna Metal Works, Tiliala, Calcutta 700001.
Bengal Chem. & Pharma. Works Ltd., 164, Manicktolla Main Rd., Calcutta 700001.
Indian Metal Ind., 9, Bonefield Lane, Calcutta 700001.
Machine & Mill Stores Corpn. Pvt. Ltd., 76/19, Benaras Rd., Howrah 711101.
Minimax Ltd., Mercantile Bldg., Lal Bazar, Calcutta 700001.
Model Engg. Works Pvt. Ltd., 8, Rabindra Sarani, Calcutta 700016.
Robert Mclean & Co. Ltd., 27-B, Camac St., Calcutta 700016.
Royson (Fire Eng.) Pvt. Ltd., 55, Gariahat Rd., Calcutta 700019.
Sur Enamel & Stamping Works Pvt. Ltd., 25, Middle Rd., Entally, Calcutta 700001.

FISHING AIDS

Gladstone Lyall & Co. Ltd., 4, Fairlie Place, Calcutta 700001.

FLASHLIGHT CASES

Flash Light India Pvt. Ltd., 135, Princep St., Calcutta 700013.
Geep Flashlights India Ltd., 28, South Rd., Allahabad 211001.
Sen Bros. Pvt. Ltd., 3, Amartolla St., Calcutta 700001.
Union Carbide India Ltd., 1-3, Brabourne Rd., Calcutta 700001.
United Flashlight Ind. Pvt. Ltd., 14/2, Old China Bazar St., Calcutta 700001.

FOOD PROCESSING & CANNING MACHINERY

A. P. V. Engg. Co. Pvt. Ltd., 2, Jessore Rd., Calcutta 700028.
Larsen & Toubro Ltd., L & T House, Ballard Estate, Bombay 400038.
Mather & Platt Ltd., 8, Graham Rd., Ballard Estate, Bombay 400038.
Mather & Greaves Ltd., Chinchwad, Pune 411019.
Universal Mechanical Works Pvt. Ltd., off Ferguson Rd., Worli, Bombay 400018.
Vacuum Plant and Instrument Manufg. Co. Pvt. Ltd., Mundhwa, Pune 4411001.
Vitro Pharma Products Pvt. Ltd., 89 Ind. Estate, Kandivli, Bombay 400067.
Vulcan Laval Ltd., Mustafa Bldg., 7-A, Sir P. Mehta Rd., Bombay 400001.

FOODS—PROCESSED

Assam

Crozier's Agency (Pvt.) Ltd., Silchar 788001.

Delhi

Pure Drinks (New Delhi) Pvt. Ltd., Connaught Lane, New Delhi 110001.

Gujarat

J. J. Jackson & Co., Nanabhai Rd., Near Besant Hall, Surat 395001.
R. B. Kolah, Tarota Bazar, Kolah Circle, Navsari 396445.

Haryana

Ram Ditta Gopal Das, B/306, Sadar Bazar, Karnal 132001.

Himachal Pradesh

Solan Food Products Ltd., Solan Rajgarh Rd., Solan, 173212.

Karnataka

K. C. Patankar, Market, Belgaum 590001.

Niami Products, 12, Chick Bazar Cross Rd., Taskar Town, Bangalore 560001.

Om Mahal Fruit Products, Bunder, Bangalore 560001.

Kerala

G. N. Ramkrishna, Narasus Food Products, Temple Rd., Chelakara, Trichur Dist.

Gecy Food Products, P.O. Poovarany, Town Palar, Kottayam Dist.

Maharashtra

Allied Fruit Products, Unit 102, Allied Ind. Estate, M. C. Cross Rd., Mahim, Bombay 400016.

Ardeo, 13-19, Medows St., Bombay 400001.

B. S. Honale & Sons, Sadashiv Cross Lane, Bombay 400004.

Badawalla & Co., 24, Kembro's Ind. Estate, L. B. Shastri Rd., Bombay 400078.

Bala Tatoba Chaugule, 341/42, M. Phule Market, Bombay 400001.

Basant & Co., Bldg. No. 1, Navjeevan Colony, Dr. Bhadkamkar Marg, Bombay 400008.

Bharat International Traders, C/o Shri Nessim Ezair, Shalimar Bldg., Nariman Point, Bombay 400020.

Canning & Brewing Ind., 32, Vaibhav Ind. Estate, Sion-Trombay Rd., Bombay 400088.

Central Fruit Products, 1/729, Nawabpura, Amravati 444601.

Champion Products, 196, Nishanpada Rd., Bombay 400009.

Comet Crush, P/19, Cusrow Baug, Colaba Causeway, Bombay 400005.

Cona Products, 171, Girgaum Rd., Bombay 400004.

Crysto Products Co., Plot No. 29/7, Jaikaran Sinha Chawl, Vikhroli East, Bombay 400083.

Dee Bright & Co., 56, Bukiyabai Mansion, St. Mary's Rd., Bombay 400010.

Diamond Chemical Works, 1 B, Khotachi Wadi, Bombay 400004.

Dr. Writer's Chocolates & Canning Co., Bhavani Shankar Rd., Bombay 400028.

Duke & Sons Pvt. Ltd., 2-A, Khetwadi Main Rd., Bombay 400004.

Emu Halley & Sons, 17/12th Khetwadi Cross Lane, Bombay 400004.

Excel Products, Green House, Sabu Siddik Rd., Bombay 400001.

Framjee Nawroji, 31, Forbes St., Bombay 400001.

Hawai Ind., 85, Love Lane, Mazagaon, Bombay 400010.

Health Cold Drink House, 150/52, S. V. Patel Rd., Dongri, Bombay 400009.

Herbertsons Ltd., Ewart House, Bruce St., Bombay 400001.

Hind Masala & Pickles Producing Co., Rajwada Chowk, Sangli 416416.

Imperial Food Products, C/o Imperial Stores, Mahabaleshwar.

Indian Vegetable Products Ltd., Forbes Bldg., C. Rai Marg, Bombay 400001.

J. G. Maraye, 530, Delisle Rd., Gomatibai Chawl, Near Bakri Adda, Bombay 400011.

Janki Prasad Andhari Ram, Hari Bhavan, 46, C.P. Tank Rd., Bombay 400004.

K. T. Kubal & Co. Pvt. Ltd., 40, Foras Rd., Bombay 400008.

Ketkar Brothers, D. Harganga Mahal, Khodadad Circle, Bombay 400014.

Kirtikar Bros., Thakurdwar Junct., Bombay 400002.

L. M. Ayare & Sons, Shop No. 45, H/J, Lalbaug New Market, Bombay 400012.

Makarand Products, 3, Sadashiv St., Bombay 400004.

Mala's Fruit Products, Mala Cottage, Panchgani, Satara Dist.

Manekchand Kissandas, Utran, Jalgaon Dist.

Mangal Udyog Kendra, At Phansu, Taluka Dapoli, Ratnagiri Dist.

Merwanjee Poonjiajee & Sons Pvt. Ltd., Poonjiaji Bldg., Princess Dock, Frere Rd., Bombay 400009.

Mody & Co., Engineer Bldg., 265, S. Gandhi Marg, Bombay 400002.

Motilal Masalawalla, 405, Grant Rd., Bombay 400007.

N. M. Poonjiaji & Co., 42, First Marine St., Bombay 400002.

National Fruit Products, Joshi St., Raja Wadi, R. Ashar Lane, Bombay 400077.

P. A. Masalawalla, 156, Thakurdwar Rd., Bombay 400002.

Pilot Products, 20, Chawl Wadi, Kolbhat Lane, Bombay 400002.

Pumpa Ind., 100, Siddheshwar Peth, Sholapur 413001.

Pure Food Products, 43, Navandawan Ind. Estate, Mulund West, Bombay 400080.

R. D. Pednekar, 116-B, Anandji Laddha Chawl, Sane Guruji Marg, Chinchpokli, Bombay 400012.

Rajaram Surajdin Acharwalla, 663, Haines Rd., Pathan Chawl, Jacob Circle, Bombay 400011.

Rasa Raj Food Products, D/5, Mandjyoti Ind. Estate, Kurla Andheri Rd., Bombay.

Relish Fruit Products, 4, Ram Niwas, Bombay 400007.

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Robert Walter & Co., Ashraf Mansion, 85, Love Lane, Bombay 400010.
Rogers & Co. Pvt. Ltd., 18, Clare Rd., Bombay 400008.
S. D. Fruit Products (Reza), 25, Chanchal Smruti, Katrak Rd., Bombay 400031.
S. T. Products, Green House, Sabu Siddik Rd., Bombay 400001.
Siqueira & Sons, 121, Fort St., Bombay 400001.
Surajlal Kanai, 7, Panchkhata, Haines Rd., Opp. Khatau Mills, Bombay 400027.
Taj Fruit Products Co., 14/16, M. Ali St., Bombay 400009.
Thakur Ani Mandali, 155, Lady Hardinge Rd., Bombay 400016.
Top Line Products, 100, Sarang St., Bombay 400003.
Turf Aerated Waters Pvt. Ltd., 69, Tardeo Rd., Bombay 400034.
Union Trdg., Co. (Bombay) Pvt. Ltd., 5, Graham Rd., Ballard Estate, Bombay 400001.
United Trdg. Corpn., 141-43, M. Phule Market, Bombay 400001.
V. P. Bedekar & Sons Pvt. Ltd., Mughbat Lane, Bombay 400004.
Victory Fruit Products, 62, Katrak Rd., Bombay 400031.

Meghalaya

Arkay's Products, Pranab Bhavan, Rehabari, Gauhati 781008.

Rajasthan

Fruit Preservations, Ramduttmal Lachmandas, Alwar 301001.

Tamil Nadu

K. Sabjan, Akbar Syrup Co., Begumpur, Dindigul II, Madurai Dist.
K. O. Subramania Pillai Sons, 47, Amman Sannadhi St., Madurai 625001.
N. Arumugam Pillai, New Market, South Street, Karaikudi 623001.

Tripura

Badal Fruit Products & Co., Ind. Estate, Arundhati Nagar, Agartala 799001.

Uttar Pradesh

Matloobar Rehman Malangir Khan, Hind Murabba Factory, Seohara (Near Muradabad) 244001.
National Ind., 90, Chandernagar, Lucknow 226001.

West Bengal

Pal's Fruit Products, Deshbandhu Para, P.O. Siliguri 734401.

FOODS—FISH & MEAT CANNING

Andhra Pradesh

Fish Products Ltd., Jagannaickpur, Kakinada 533002.
Universal Sea Foods Pvt. Ltd., Sulurpeta.

Delhi

Essex Farm Pvt. Ltd., Kalu Sarai, P. O. Yusuf Sarai, New Delhi 110016.

Goa

Goa Exotic Canners & Freezers, Rue Jose Falcao, Panaji 403001.
Konkan Fisheries Pvt. Ltd., Chowgule, Marmagao.

Karnataka

Canara Sea Food Packers, Govt. Ice Factory Bldg., Hoige Bazar, Mangalore 575001.
Cornet Canning Co., Raj Mandir, Malpe, S. Kanara.
Madonna Canning Co., Mukka, Surathkal, Mangalore 575001.

Kerala

Acquatic Food & Allied Products, Jew Town, Cochin 682002.
Blue Bay Fisheries Pvt. Ltd., Jew Town, Cochin 682002.
Canning Ind. (Cochin) Ltd., Trichur 680005.
Castle Rock Fisheries, Palluruthy, Cochin 682001.
Cherian & Kuruvilla, Alissery Ward, Alleppey 688001.
Choice Canning Co., 19/4, Kochangadi, Cochin 682005.
Coastal Food Packers Factory, Palluruthy, Cochin 682005.
Cochin Fish Canning Co., Near Aroor Bridge, Cochin 682005.
Combined Sea Food, Narakkal.
Continental Fisheries, 19/128, Opp. Central Warehouse, Cochin 682005.
Darlco Canning Ltd., Moospet Rd., Trichur 680005.
Eastern Marine Products, Kuthirapanthy Ward, Alleppey 688001.
Esbel Products, Tirumala, Trivandrum 695001.
Fisherman Sales Orgn. (INP) Ltd., Neendakara, Chavara.
Four Seasons Fisheries Co. 29/18, Near Syrian Church, Palluruthy, Cochin 682006.
High Seas Fishing Enterprises, 28/825, Kochupalli Rd., Thoppumpady, Cochin 682005.
Ibrahim Mohammed Hashim & Bros., Jew Town, Cochin 682001.
India Sea Foods, West Hill, Calicut 673005.
Indian Seafoods, Kannamally, Cochin 682001.
Indo Marine Agencies (Kerala) Pvt. Ltd., Kochangadi Rd., Cochin 682005.
Indo Norwegian Project, Chavara.
International Canning Co., Alwaye 683101.
International Fisheries, Karuvelipady, Cochin 682005.
International Fisheries Pvt. Ltd., Dennis Papli, 17-375-A, Chullickal, Cochin 682005.
Island Club Canning Co., Wellingdon Island, Cochin 682003.
Island Sea Foods Pvt. Ltd., Govt. Ice Cold Storage Factory, Cochin 682005.
Jupiter Fisheries, 10/439, Alathukutty Rd., Cochin 682005.
K. E. Kesavan & Co., P.O. Box No. 118, Cochin 682005.
Kerala Fisheries Corpn. Ltd., XVII/855-856, Shanmugam Rd., Ernakulam 682001.
Kerala Food Packers, Nadakadavu, Cochin 682005.
Kerala Sea Foods, Neendakara, Chavara.
Keralakalpa Ind. Pvt. Ltd., Jew Town, Cochin 682001.
Kozhikode Mechanised Fishermen's Co-op. Society Ltd., 3/984-A, Vellayil, Calicut 673011.
Malabar Ocean Products Co., 12/324, Jew Town, Cochin 682002.
Malbar Pack Marines, 4/765, Moonalingal, Calicut 673001.
New India Fisheries Ltd., 22/235, Rameshwaram Lane, Cochin 682002.
Ocean Sea Foods, Narakkal.
Paramount Fisheries, XXVII/1539, Palluruthy, Cochin 682006.
Parur Canning Ind. Pvt. Ltd., Parur.
Pothen Joseph & Sons, Chungam, Alleppey 688001.
Prime Fisheries, Moolayapeedika, Near Central Warehouse, Cochin 682002.

Sea Food Exporting Co., 634, Pilithottam, Quilon 691006.
Southern Fisheries Corpn., Cochin 682005.
Splar Fisheries Canning Factory, Nampiapuram Rd., Palluruthy, Cochin 682006.
Travancore Cochin Prawn Curers Co-op. Mktg. Society Ltd., Cochin 682005.
Universal Ice Plant & Fisheries Corpn., Thottapally, Quilon Dist.
West Coast Sea Foods, 18/160, Kochangadi, Cochin 682002.
XL Sea Foods, 27/479-A, Thoppumpady, Cochin 682005.

Maharashtra

A. Kalvert & Co., 90, Mount Rd., Bombay 400010.
Bacon Factory, Krishnagiri Upavan, Bombay 400092.
Dr. Writers Chocolate and Canning Co., B. Shankar Rd., Bombay 400028.
James Smith & Co., Shriniwas House, Waudby Rd., Bombay 400001.
Poultry Dressing Plant, Pune 411016.
Pure Products & Madhu Canning Ltd., Sion Trombay Rd., Bombay 400084.

Tamil Nadu

Coastal Sea Foods, 69, Barthur St., Kilakarai Ramnathapuram Dist.
Indo Marine Agencies (Tamil Nadu), 45, M. Labhai St., Madras 600011.

Uttar Pradesh

Central Dairy Farm, Aligarh 202001.

FOODS—FRUIT & VEGETABLE CANNING

Andhra Pradesh

East Coast Food Products Ltd., Tadepalli, Guntur Dist.
Govt. Fruit Preservation Factory, Anantharajupet, Cuddappah Dist.
Hyderabad Food Preservers Ind. Co-op. Works Centre Ltd., Nizamshahi Rd., Hyderabad 500001.
India Fruits Pvt. Ltd., Kadiam, E. Godavari Dist.
Rai & Sons Pvt. Ltd., Juice Lane, Kukatpalli, Hyderabad 500034.
Salchar Food Products, 35, Panjagatta, Hyderabad 500034.
South India Food Products, 459, Begum Bazar, Hyderabad 500012.

Delhi

Ambrosia Food & Canning Ind., 23/5C, Rohtak Rd., New Delhi 110005.
Bombay Food Products, 5-641, Mehrauli, New Delhi 110030.
Depro Foods Ltd., B-6, Defence Colony, New Delhi 110024.
Edward Keventers Pvt. Ltd., S. Patel Rd., New Delhi 110011.
Essex Farms Pvt. Ltd., 4, Mehrauli Rd., New Delhi 110030.
Excelsior Food & Chemical Ind., 4, Paharganj Lane, New Delhi 110001.
Food Specialities Ltd., 3, B. Shah Zafar Marg, New Delhi 110001.
Hamdard Wakf Laboratories India, Lal Kuan, Delhi 110006.
Harnarain Gokalchand, Khari Baoli, Delhi 110006.
Healthways Food Products Co., Sadar Thana Rd., Delhi 110006.
Kaytis Food Preservers, New Delhi 110037.
Midland Fruit & Veg. Products India Ltd., Okhla Ind. Estate, New Delhi 110020.
Mohan Ghee Laboratories, Gurdwara Rd., Karolbagh, New Delhi 110005.
Northland Ind., Rajauri Rd., New Delhi 110001.
Shalimar Fruit Products, M 13, Ind. Area, Anand Parbat, New Delhi 110005.
Shamrock Food Products, Maniwala Bagh, Azadpur, New Delhi 110033.

Goa

Chowgule & Co. Hind Pvt. Ltd., Margao, Goa 403601.
Goa Exotic Canners & Freezers, Jose Falcao Rd., Panaji 403001.
Goa Farm Products, Panaji 403001.
Goa Food Products Ltd., Margao, Goa 403601.

Gujarat

Bipin Food Products, Ind. Estate, Vadodara 390003.
Pure Products & Madhu Canning Ltd., Ind. Estate, Vadodara 390003.
Roerick & Co. Ltd., Modi Santh, Nadiad, 387001.

Himachal Pradesh

Krishna Fruit Agency, Subzimandi, Simla 171001.
Mohan Meakin Breweries Ltd., Solan 173212.
Solan Food Products Pvt. Ltd., Solan 173212.
Vegetable Growers' Co-op.-cum-Mktg. Society, Solan 173212.

Jammu and Kashmir

H. A. Rahim & Co., Rajbagh, Srinagar 190001.
J. K. Barley Works, Parade, Jammu 180001.
Kashmir Fruit Assn., Fruit Market, Srinagar 190001.
Kashmir Fruit Chemical Ind., Bohri, Srinagar 190001.
Kashmir Fruits, Ind. Estate, Barzulla, Srinagar 190001.
Kay Food Preservers & Canners, Moti Bazar, Srinagar 190001.
Nishat Fruit Co., 7, Fruit Market, Srinagar 190001.
Sama Pvt. Ltd., Sopore.
Sawhney's Fruit Farms, Batapora, Srinagar 190003.
Tulip Products, Ind. Estate, Barzulla, Srinagar 190001.

Karnataka

Bharat Ind. & Canning Co., Ltd., Kaup, S. Kanara Dist.
Bharat Ind. Canning Co., Ltd., Market Rd., Mangalore 575001.
Bolst's Indian Condiments, 9, Ashley Park Rd., Bangalore 560001.
Bombay Foods Pvt. Ltd., Harohalli Rd., Byrapura, Bangalore 560001.
Canara Sea Food Packers, Govt. Ice Factory Bldg., Hoige Bazar, Mangalore 575001.
Coorg Honey & Wax Products Co-op. Society Ltd., Virajpet, Coorg.
Coorg Orange Growers' Co-op. Society Ltd., Palibetta, Coorg.
Coronet Canning Co., Ltd., Malpe, S. Kanara Dist.
East Products Pvt. Ltd., Millers Rd., Bangalore 560001.
Food Concentrates (I), B-49, Ind. Estate, Rajajinagar, Bangalore 560010.
Hindustan Canning Co., Marnamikatta Rd., Mangalore 575001.
Honnavar Bee Keeping Society Ltd., Honnavar, N. Kanara Dist.

Janfa's Fruit Products, Mathikoppa, P.O. Ulloor, Shimoga Dist.
Kissan Products Ltd., Old Madras Rd., Bangalore 560016.
Kwality Food Products, Mysore Rd., Bangalore 560026.
Madonna Canning Co., Mukka, Surathkal, Mangalore 575001.
Orchards Fruit Products, 5, Bore Bank Rd., Bangalore 560006.
Vita Food Products, Mysore Rd., Bangalore 560020.

Kerala

Ashiana Greens & Foods Ltd., Cannanore 670001.
Canning Ind. Cochin Ltd., P.O. Box 48, Trichur 680001.
Darlco Canning Ltd., Moospet Rd., Trichur 680005.
Dessicated Coconut Ind., Thuruthy, Chenganacherry 686101.
Esbel Products, Thirumalam, Trivandrum 695001.
International Canning Co., Cochin 682001.
Kaycee Plantations & Canning Co., High Rd., Trichur 680001.
Midland Fruit & Vegetable Products (India) Ltd., Punalur 691305.
National Dairy & Canning Co., Ltd., Trivandrum 695001.
Parur Canning Ind. Pvt. Ltd., Parur.

Maharashtra

A. Kalvert & Co., 90, Mazgaon Rd., Bombay 400010.
Anand Canning Ind. Pvt. Ltd., 522, A. H. Adenwala Rd., Bombay 400019.
Asian Dehydrates Ltd., 40, Police Court Lane, Bombay 400001.
Blossom Food Ind., Khopoli.
Bombay Foods Ltd., Khatau Chawl, Haines Rd., Bombay 400011.
Britannia Prestige Foods, Reay Rd., Bombay 400010.
Canned Food Products, Fansibag, S. Nagar, Ratnagiri 415612.
Chitale Agricultural Products Ltd., 635/63-64, Vijayanagar Colony, Pune 411002.
Chitale Syrups & Allied Products Ltd., Western India House, Sir P. Mehta Rd., Bombay 400001.
Choc's Canning Pvt. Ltd., 28, Apollo St., Bombay 400001.
Corn Products Co. (I) Pvt. Ltd., Shrinivas House, Waudby Rd., Bombay 400001.
D. & P. Products Pvt. Ltd., Agra Rd., Bhandup, Bombay 400078.
Dee Bright & Co. (I) Pvt. Ltd., St. Mary's Rd., Bombay 400010.
Dr. Writer's Chocolate & Canning Co., B. Shankar Rd., Bombay 400028.
Fruit & Farm Products, Behramji Mansion, Sir P. Mehta Rd., Bombay 400001.
G. B. Food Ind., Near Quetta Colony, Nagpur 441002.
General Foods Corpn., Saki Vihar Rd., Bombay 400072.
Gits Food Products (I), 201, Hadapsar Ind. Estate, Pune 411013.
Harnik Food Ind., 9, Connaught Rd., Pune 411002.
Hasba Fruit Products, 24, Nagesh Peth, Pune 411002.
Hawai Ind., 85, Love Lane, Bombay 400010.
Himalaya Food Products, Gupta Nagar, Bombay 400060.
Hindustan Food Products, 340, Opp. Sewree Rly. Stn., Sewree, Bombay 400015.
Hindustan Lever Ltd., Backbay Recl., Bombay 400020.
James Smith & Co., Shrinivas House, Waudby Rd., Bombay 400001.
Janata Food Products, Bachelor Rd., Wardha 442001.
Jivan Foods Pvt. Ltd., Worli Sea Face, Bombay 400018.
Mahendra Foods Pvt. Ltd., Sion Trombay Rd., Bombay 400088.
Mig Ind., S. Senvi Wadi Lane, Khadilkar Rd., Bombay 400004.
M. M. Poonjiajee & Co., 42, First Marine St., Bombay 400002.
Nagpur Orange Growers' Co-op. Assn. Ltd., Nagpur 440001.
Pamona Canning Co., Kasturchand Mills Estate, Bombay 400028.
Pashupathi Trading Co. Ltd., Bagadganj, Nagpur 440001.
Poona Dist. Co-op. Purchase & Sales Union Ltd., Bhawanipeth, Pune 411002.
Poona Food Canning Pvt. Ltd., 685/2-C, Poona-Satara Rd., Pune 411019.
Powells Farm Products, Chimanbagh, Panchgani.
Pure Food Products, 43, Nav Nandanvan Ind. Estate, Agra Rd., Bombay 400080.
Pure Products & Madhu Canning Ltd., Sion-Trombay Rd., Bombay 400071.
Ratnakar Canning Ind., Shivajinagar, Pune 411005.
Rio Food Products Co., 485, Cadell Rd., Bombay 400028.
S. D. Fruit Products, 62, Katrak Rd., Bombay 400031.
Sunshine Seafoods Co. Pvt. Ltd., Sangli Bank Bldg., Homji St., Bombay 400001.
Tata Ind. Pvt. Ltd., 24, Bruce St., Bombay 400001.
Tim Tom Food Products, Shantinagar, Vakola, Bombay 400055.
Top Rank Co., Swadeshi Mill Estate, Bombay 400004.
Triumph Products, B. Shankar Rd., Bombay 400028.
U. S. Vitamin & Pharmaceutical Corpn. India Ltd., 43, Forbes St., Bombay 400001.
Weikfield Products Co. (I), 116, Koregaon Park, Pune 411001.
Yeshwant Co-op. Canning Ltd., Pimpalgaon, Sholapur Dist.

Orissa

Barabati Fruit Products Ltd., Rajabagicha, Cuttack 753001.
Orissa Fruit Products Ltd., Ind. Estate, Cuttack 753001.
Utkal Fruit Products Ltd., Angul, Dhenkanal Dist.

Punjab

Atma Singh Bholasingh, New Misri Bazar, Amritsar 143001.
Food Specialities Ltd., Ludhiana-Ferozpur Rd., Moga 142001.
Glacier Products India, Pathankot 145001.
J. B. Fruit Products, Basti Guzan, Jullundur 144001.
Pal's Fruit Products, 22, Model Town, Amritsar 143001.

Rajasthan

Jai Canning Co., Sood Sadan, Gumanpura, Kota 324001.
Rajasthan Fruit Preservers Pvt. Ltd., N. Sriganganagar 335001.

Tamil Nadu

Banana & Fruit Dev. Corpn. Ltd., 3, Wheatcrofts Rd., Madras 600034.
Coastal Sea Foods, 69, Barthur St., Kilakarai.

Coimbatore Malt Food Factory, 29, Sundarakkamuthur Rd., Coimbatore 641001.
Dalmia Pvt. Ltd., Dalmia House, Madras 600033.
Fruitex Fruit Juice Products, West Cooum River Rd., Madras 600002.
Fruitnik Delican Pvt. Ltd., Annanagar, Madras 600040.
Kerala Food Packers, 6, S. Naidu St., Cuddalore 607003.
Madras Food Products Co. Ltd., 48, Anderson St., Madras 600001.
Orient Pharma Pvt. Ltd., Old T. Rd., Madras 600043.
Shri Ganeshram & Co., 46, T. Chetty St., Madras 600001.
Venkatachalam Condiments, 1-2, Pophams, Broadway, Madras 600001.

Uttar Pradesh

Ajanta Raj Food Ind., 9, Ind. Estate, Agra 282006.
Allahabad Canning Co., Bamrauli, Allahabad 211001.
Allahabad Milling Co., Pvt. Ltd., Luckerganj, Allahabad 211001.
Anu Canning & Bottling Ind., 17/7, The Mall, Kanpur 208001.
B. Dugson Fruit Products, 7, Chakrata Rd., Dehra Dun 248001.
Bharat Fruit Co., Tikonia, Etawah 206001.
Bimal Fruit Products, Chowk, Lucknow 226003.
B. K. Food Ind., B-1, Ind. Estate, Talkatora Rd., Lucknow 226004.
Central Dairy Farm, Aligarh 202001.
G. G. Fruit Preservation Factory, Tanakpur Rd., Haldwani.
G. G. Ind., Belanganj, Agra 282001.
Globe Chemical & Fruit Products, Chabai Qila, Bareilly 243001.
Govt. Fruit Processing Factory, Ram Garh, Nainital Dist.
Greenland Ind., G.T. Rd., Chandore, Bulandshahr 203001.
Healthways Food Products Co., 86, Factory Area, Kanpur 208001.
Kumaon Farm Products, Poplars Mall, Nainital 263001.
Maharaja Food Ind., Ghazipur 233001.
Midland Fruit & Vegetable Products (I.) Ltd., Mathura 281001.
Mohan Meakin Breweries Ltd., Mohan Nagar, Ghaziabad 201001.
Paris Food & Chemical Ind., 17, Dhamanwala, Dehra Dun 248001.
Spencer & Co. Ltd., G.T. Rd., Kanpur 208001.
S. R. Cannery, 148, Attarsuiya Rd., Allahabad 211001.
Toki Food Products, B. L. Estate, Kanpur 208001.
Uberoi Food Ind. 2, Scott Rd., Sadar, Lucknow 226002.
U.P. Chemicals & Fruit Products Pvt. Ltd., Bara Bazar, Bareilly 243001.
U.P. Fruit Products Pvt. Ltd., Bara Bazar, Bareilly 243001.
Veldon Chemical & Food Products, 39/B, Chukhuwala, Dehra Dun 248001.

West Bengal

Alpha Food & Chemical Pvt. Ltd., 142, B. Shah Rd., Calcutta 700053.
Amiadia Food Products Ltd., 7/2, Amratola Lane, Calcutta 700001.
Atlantis (East) Ltd., 41, Chowringhee Rd., Calcutta 700016.
Bengal Chemical & Pharm. Works Ltd., 164, Manikotta Main Rd., Calcutta 700011.
Boral & Son Pvt. Ltd., 11-B, R. Biswas Lane, Calcutta 700019.
Crushers Fruit Juice Co., 32-A Beniapukur Lane, Calcutta, 700014.
Dabur (Dr. S. K. Burman) Ltd., 142, Rashbehari Ave., Calcutta 700029.
Daw Sen & Co. Pvt. Ltd., 26, S. Sarkar Rd., Calcutta 700014.
Farm & Fruit Products Pvt. Ltd., 71/A, Chakraberia Rd., Calcutta 700020.
Frank Ross & Co. Ltd., 35, Ripon St., Calcutta 700016.
Gaylord Processed Food Products, 39, Nimtola Ghat St., Calcutta 700006.
Imperial Fruit Preserving Co., 35/A, Muraripukur Rd., Calcutta 700004.
James Lord & Sons Ltd., 19, Strand Rd., Calcutta 700001.
Jedys Fruit Preserving Co., 114, Collin St., Calcutta 700016.
Kalyanpur Canning Corpn., C/3, Gillander House, N. Subash Rd., Calcutta 700001.
Lilly Barley Mills Pvt. Ltd., 19, Muraripukur Rd., Calcutta 700004.
Lokenath Chemical Works, 31/1, The Mall, Dum Dum, Calcutta 700028.
Mays Fruit Ind., 36, Mott Lane, Calcutta 700013.
Mida & Co. Pvt. Ltd., 33, Canning St., Calcutta 700001.
Mitter Sircar & Co., 68, Serpentine Lane, Calcutta 700014.
Pure Food Producing Co., 413, D. H. Rd., Behala, Calcutta 700034.
Reckitt & Colman of India Ltd., B. Roy Rd., Behala, Calcutta 700008.
State Fisheries Dev. Corpn. Pvt. Ltd., 43, Shakespeare Sarani, Calcutta 700016.
Tims Products Ltd., Nimta Rd., Belgharia, Calcutta 700056.
United Chemical Ind., M. N. Kumar Rd., Calcutta 700036.
United Fruit Preserving Co., 31, Mott Lane, Calcutta 700013.

FOOD COLOURS

Gujarat

Atul Products Ltd., Atul, Via Valsad.
K.C.A. Pvt. Ltd., Chandralaya, Chandibazar, Jamnagar 361001.
Suhrid Geigy Pvt. Ltd., Wadi Wadi, Vadodara 390001.

Maharashtra

Esoofaly Mohamedaly & Co., 102/4, Sarang St., P.B. 3177, Bombay 400003.
Hickson & Dadaji Pvt. Ltd., Sri Pant Bhuwan, Sandhurst Bridge, Bombay 400007.
Idachem Ind. Pvt. Ltd., National Insurance Bldg., Dr. D. Naoroji Rd., Bombay 400001.
James Smith & Co., Shriniwas House, Waudby Rd., Bombay 400001.
Mody & Co., 265, Princess St., Bombay 400002.
Weikfield Products Co. India, 116, Koregaon Park, Pune 411001.

Uttar Pradesh

Tirath Chemical Ind., Ganeshganj, Lucknow 226001.

FOODS—PROTEIN

Delhi

Coca-Cola Export Corpn., 14-A, Nizam-ud-din West, New Delhi 110013.

D.C.M. Chemical Works, Najafgarh Rd., New Delhi 110015.

Food Corpn. of India, 1, B. Shah Zafar Marg, New Delhi 110001.

Hindustan Milkfood Manufrs. Ltd., Himalaya House, 23, K. Gandhi Marg, New Delhi.

Modern Bakeries (I) Ltd., Vasant Vihar, C-8, Paschim Marg, New Delhi 110022.

Nestle's Products (I) Ltd., Link House, 3, B. Shah Zaffar Marg, New Delhi 110001.

Gujarat

Kaira Dist. Co-op. Milk Producers' Union Ltd., Anand 388001.

Maharashtra

Britannia Biscuit Co. Ltd., Nirmal, Nariman Point, Bombay 400020.

Cadbury Fry (I) Ltd., Cadbury House, B. Desai Rd., Bombay 400026.

Corn Products Co. (I) Pvt. Ltd., Mathruchaya, 86, M. B. Raut Rd.. Bombav 400028.

Glaxo Laboratories (I) Ltd., Dr. A. Besant Rd., Worli, Bombay 400018.

Hindustan Lever Ltd., 165/166, Backbay Recl., Bombay 400020.

Parle Products Pvt. Ltd., North Level Crossing, Vile-Parle, Bombay 400057.

Pfizer Ltd., Express Towers, Nariman Point, Bombay 400020.

Roche Products Ltd., 28, Tardeo Rd., Bombay 400034.

Tata Oil Mills Co. Ltd., Bombay House, Bruce St., Bombay 400001.

Unichem Laboratories Ltd., 22, B. Desai Rd., Bombay 400026.

Wallace Flour Mills Co. Ltd., 9, Wallace St., Fort, Bombay 400001.

Warner Hindustan Ltd., Belvandi House, 254-B, Dr. A. Besant Rd., Bombay 400025.

Punjab

Jagatjit Ind. Ltd., P.O. Jagatjit Nagar, Hamira (N. Rly.), Kapurthala Dist.

Tamil Nadu

Spencer & Co. Ltd., 153, Mount Rd., Madras 600002.

West Bengal

Brooke Bond (I) Ltd., 9 Shakespeare Sarani, Calcutta 700016.

Lipton (I) Ltd., 9, Weston St., Calcutta 700013.

Reckitt & Colman of India Ltd., 41 Chowringhee Rd., Calcutta 700016.

United Flour Mills Co. Ltd., 4, Bankshall St., Calcutta 700001.

FOOTWEAR—LEATHER

Andhra Pradesh

Leather & Shoe Makers Ind. Co-op. Society, Jagtila, Karimnagar Dist.

Bihar

Chambar Ind. Co-op. Soc. Ltd., P.O. Bihar Sharif, Patna Dist.

Govt. Footwear Factory, Darbhanga 846004.

Karnataka

Tanners & Leather Goods Producers' Co-op. Sales Society Ltd., Srinivaspur, Kolar Dist.

Maharashtra

Bombay Footwear Pvt. Ltd., Dharani Rd., Bombay 400017.

Carona Sahu Co. Ltd., 221, Dr. D. Naoroji Rd., Bombay 400001.

Dawood Co., Kerawala Mansion, Carnac Rd., Bombay 400002.

Goldfilled Leather Works, S. Gandhi Marg, Bombay 400002.

Goldwyn Leather Works, Sitaram Bldg., Dr. D. Naoroji Rd., Bombay 400001.

J.J. & Sons, Prathana Samaj, Bombay 400004.

Sahyog Footwear Production Centre, 280, Dharavi, Bombay 400017.

Western India Tanneries Ltd., Dharavi, Bombay 400017.

Tamil Nadu

Govt. Footwear Production-cum-Service Centre, Krishnadas St., Madras 600001.

Uttar Pradesh

Agra Co-op. Marketing Society Ltd., 1251, Kachora Bazar, Agra 282001.

Agra Cottage Industries, Shoe Workers' Association, Har Parbal, Agra 282001.

Agra Footwear Co-op. Syndicate, Hing ki Mandi, Agra 282001.

Baluja Footwear Co., Tikonia Bazar, Agra 282003.

Bharat Kala Kendra Pvt. Ltd., Govind Pur, Modinagar.

Caxton Footwear Co., Shoe Market, Agra 282003.

Taj Tannery Ltd., Tajganj, Agra 282001.

Tannery & Footwear Corpn. of India Ltd., Civil Lines, Kanpur 208001.

Textila Footwear Co. (India) Pvt. Ltd., 50, Lajpat Kunj, Agra 282001.

Upper India Leather Works, 98/88, Nazarabagh, Kanpur 208001.

West Bengal

Bata Shoe Co. Pvt. Ltd., Batanagar, 743313.

Bensen Ind., 96, Sri Aurobindo Rd., Salkia, Howrah 711101.

Glace Kid (India) Ltd., 22-1, Gorachand Rd., Calcutta 700001.

D.T.I. Leather Experts Co-op. Soc. Ltd., C/o College of Leather Technology, Calcutta 700001.

P. Bask & Co., 9, Chidam Mudi Lane, Calcutta 700006.

FOOTWEAR-LEATHER—INDIAN STYLE

Bata Shoe Co. Ltd., Batanagar, 24 Paraganas, W. Bengal.

Bombay Footwear Pvt. Ltd., Deonar, Chembur 400071.

Carona-Sahu Co. Pvt. Ltd., 143, M. Gandhi Rd., Bombay 400001.

Chrome Leather Co. Pvt. Ltd., Chromepet, Madras 600044.

Prime Products Ltd., P.B. No. 80, Kanpur 208001.

Tannery and Footwear Corpn. of India Ltd., 13/400, Civil Lines, Kanpur 208001.

FOOTWEAR—PLASTIC

Delhi

Avon Footwear Ind. Pvt. Ltd., C-575 Defence Colony, New Delhi 110003.

Bharat Ind. Corpn., 15, West Patel Nagar, New Delhi 110008.
Goel Plastics Pvt. Ltd., 2, Ind. Area, Kirti Nagar, New Delhi 110015.
Mohan Enterprises, 1, Ind. Area, Tilak Nagar, Najafgarh Rd., New Delhi 110018.
Saco Rubbers Pvt. Ltd., A-3, Kirti Nagar, Najafgarh Rd., New Delhi 110015.
SVIK (India), A-36, Lajpat Nagar II, Link Rd., New Delhi 110024.

Gujarat

Mobela Corpn., G. S. Fozdar's Bungalow, New Sharda Mandir Rd., Ellis Bridge, Ahmedabad 380007.

Maharashtra

Aruna Enterprises, Flat No. 306, 'E' Block, Simla House, Napean Sea Rd., Bombay 400006.
Bharat Cottage Ind., 60 C.D. Govt. Ind. Estate, Kandivli West, Bombay 400067.
Bharat Swiss Footwear Co. Pvt. Ltd., Merchant Chambers, 41, New Marine Lines, Bombay 400020.
Bien Plastics, Paragon Textile Mills Comp., Globe Mills Passage, Bombay 400013.
Blow Plast Pvt. Ltd., L. B. Shastri Marg, Bhandup, Bombay 400078.
Carona Sahu Co. Ltd., 221, Dr. D. Naoroji Rd., Bombay 400001.
Chowdhary Enterprises, 203 A to Z Ind. Estate, Fergusson Rd., Lower Parel, Bombay 400013.
Gandhi Ind., Devkaran Mansion, 63, S. Gandhi Marg, Bombay 400002.
Mercantile Plastics Pvt. Ltd., 38, Nandanvan Ind. Estate, Agra Rd., Mulund, Bombay 400080.
Metro Bangles, 73-D, Kandivli Ind. Estate, Kandivli, Bombay 400067.
Nanda Footwear Pvt. Ltd., Merchant Chambers, 41, New Marine Lines, Bombay 400020.
National Celluloid Products, 60, C.D. Govt. Ind. Estate, Kandivli West, Bombay 400067.
Pilky Footwear Co., Pvt. Ltd., Churchgate Chambers, New Marine Lines, Bombay 400020.
Racy Plastic Shapers, 3A, Sidhpura Ind. Estate, Masrani Lane, Kurla, Bombay 400070.
Swastik Rubber Products Ltd., Swastik House, Behind Kirkee Rly. Stn., Pune 411003.
Universal Footwear Pvt. Ltd., 93, Queen's Rd., Bombay 400020.
Vijay Bangle Works, 78/A Ind. Estate, Charkop, Kandivli (West), Bombay 400067.

Uttar Pradesh

Foreign Exporters & Manufrs., A/3, Ind. Estate, Loni Rd., No. 2, Opp. Mohan Nagar, Ghaziabad 201001.
Supreme Plastics Pvt. Ltd., 7, Anand Ind. Estate, P.O. Mohan Nagar, Ghaziabad 201001.

FOOTWEAR—RUBBER

Ahuja Rubber Works, N. Rohtak Rd., New Delhi 110005.
Asian Rubber & Plastic Ind., Kashmir Rd., Amritsar 143001.
Associated Rubber Ind. Ltd., Bhavnagar 364001.
Bata Shoe Co. Pvt. Ltd., 30, Shakespeare Sarani, Calcutta 700017.
Bhattacharya Rubber Works Pvt. Ltd., Jessore Rd., Calcutta 700055.
British India Corpn. Ltd., Sutherland House, Kanpur 208001.
Carona Sahu Co. Ltd., 221, Dr. D. Naoroji Rd., Bombay 400001.
Enkay India Rubber Co., 156-D, Kamala Nagar, Delhi 110007.
Grover Rubber Ind. Pvt. Ltd., Kottayam 686001.
Lotus Rubber Ind., Marve Rd., Malad, Bombay 400064.
Oriental Rubber Works Ltd., 171-A, M. Gandhi Rd., Calcutta 700007.
Subhash Rubber Works Pvt. Ltd., Jain Nagar, Meerut 250002.

FORGINGS

(See under 'Steel Forgings & Stampings' in this list).

FORK LIFT TRUCKS

(See under Material Handlings).

FOUNDRY EQUIPMENT & MATERIALS

Pass-products, Bahadur Manzil, 16-30, Store Lane, Off Parsi Bazar St., Bombay 400001.

FRANKING MACHINES

Armcess Engg. Pvt. Ltd., A-8 & 9, Ind. Est., Guindy, Madras 600003.

FURNACES

Gujarat

Hind Electric Co., Ltd., Gorwa, Vadodara 390001.
Indequip Engg. Ltd., Naroda Rd., Ahmedabad 380002.

Haryana

Hindustan Instrument & Appliances, 125, Staffs Rd., Ambala 133001.

Karnataka

Southern Ind. Furnaces Pvt. Ltd., 613-4, Chamaraja Rd., Mysore 570004.

Madhya Pradesh

Industrial & Agricultural Heating Appliances, 26, Tilakpath, Indore 452001.

Maharashtra

Bombay Furnace Co., 1-3, Nandu Ind. Estate, Mahakali Caves Rd., Chakala, Andheri (East), Bombay 400069.
Bombay Furnaces Pvt. Ltd., 5, Stadium House, V. Nariman Rd., Bombay 400020.
Furnace & Foundry Equipment Co., Chandivli Farm, Bombay 400072.
Gansons Pvt. Ltd., 207, Kakad Chambers, Dr. A. Besant Rd., Bombay 400018.
Heatreats Pvt. Ltd., 4-B, Menon Ind. Estate, S. Vivekanand Rd., Bombay 400062.
Hindustan Brown Boveri Ltd., Brown Boveri House, Dr. A. Besant Rd., Bombay 400018.
Ind. Engg. Works, 38, Police Court Lane, Bombay 400001.
Khandelwal Udyog Ltd., 166, Dr. D. Naoroji Rd., Bombay 400001.
Killick Ind. Ltd., 31, Murzban Rd., Bombay 400001.
Killick Nixon Ltd., Killick House, Home St., Bombay 400001.
La Mina Pvt. Ltd., 15, Aghadi Ind. Estate, Marol, Bombay 400059.
New Standard Engg. Co. Ltd., N. S. E. Estate, Goregaon, Bombay 400063.

Sohal Engg. Works, E. Moses Rd., Bombay 400013.

Steel Plant Pvt. Ltd., 250-C, Dr. A. Besant Rd., Bombay 400018.

Therelek Furnaces Pvt. Ltd., A/131, Wagle Ind. Estate, Thana 400604.

Thermotreat, Unit No. 1, Estate No. 3, Anupam Ind. Estate, Opp. Ralliwolf, L. B. Shastri Marg, Mulund (West), Bombay 400080.

Toshniwal Bros. Pvt. Ltd., 198, J. Tata Rd., Bombay 400020.

Vulcan Engineers Pvt. Ltd., Mahalakshmi Chambers, B. Desai Rd., Bombay 400026.

Westerwork Engineers Pvt. Ltd., 5-D, Vulcan Insurance Bldg., V. Nariman Rd., Churchgate, Bombay 400020.

Tamil Nadu

Binny's Engg. Works Ltd., Meenambakam, Madras 600061.

Electro-Mech. Instruments, 49, T. H. Rd., Madras 600019.

Thadani Engg. Works Pvt. Ltd., B-6, Ind. Estate, Madras 600058.

Uttar Pradesh

Scientific Instruments Co. Ltd., 6, R. B. Sapru Rd., Allahabad 211001.

West Bengal

Associated Electrical Ind. (India) Pvt. Ltd., 6, Mission Row, Calcutta 700001.

Bengal Enamel Works Ltd., 60-2, Dharamtolla St., Calcutta 700013.

Bengal-Linn (Industrial Furnace) Ltd., 27 B, Camac St., Calcutta 700016.

Electric Furnace & Transformer Manufg. Pvt. Ltd., J-14, Howrah Ind. Estate, Howrah 711101.

H. J. Alcock & Co. Pvt. Ltd., 7, Hastings St., Calcutta 700001.

Hindustan Gas & Ind. Ltd., 22, New Tangra Rd., Calcutta 700046.

Jessop & Co. Ltd., 63, N. Subash Rd., Calcutta 700001.

Kusum Engg. Co. Ltd., 25, Swallow Lane, Calcutta 700001.

Middleton Engg. Co., 12E, Park St., Queens Mansions, Calcutta 700016.

Wesman Engineering Co. Pvt. Ltd., 1-2, Allenby Rd., Calcutta 700020.

GARDENING EQUIPMENT

Marchandy Prasad Radha Krishan Prasad Pvt. Ltd., 46, D. Ghosh Lane, Howrah 711101.

Victory Iron Works Pvt. Ltd., P-26, North Banares Rd., Howrah 711101.

GARMENTS—READY-MADE

Andhra Pradesh

Kaamles Dresses, Opp. Syndicate Bank, Adoni 518301.

Sakaray Eranna & Sons, Roshan Market, Adoni 518301.

S. G. Dresses, R. B. Bldg., Feelkhana, Hyderabad 500001.

Srinivasa Dresses, New Municipality Bldg., XX/8-8, Park Rd., Adoni 518301.

Sri Rama Dress & Co., 22-1-536/1, Noorkhan Bazar Markets, Hyderabad 500024.

Delhi

Anand Trading Corpn., 3152, Ram Bazar, Mori Gate, Delhi 110006.

Apparels (I.) Pvt. Ltd., P. B. 1668, Delhi 110006.

Award Apparel Pvt. Ltd., 10, Tilak Nagar, Ind. Area, New Delhi 110018.

Brightway Neckwear Co., Prahlad Market, Karolbagh, New Delhi 110005.

Continental Exports, 18/4 Asaf Ali Rd., New Delhi 110005.

Continental Traders, 8941, Multani Dhanda, New Delhi 110001.

Elegant Garments, 53/5, D. Gupta Rd., Near Prahlad Market, New Delhi 110005.

Emkay Ind. Corpn., 38, Najafgarh Rd., New Delhi 110015.

Golden Hosiery Manufg. Co. Pvt. Ltd., 5038, Rai Mandi, Sadar Bazar, Delhi 110006.

Handicrafts & Handlooms Export Corpn. of India Ltd., Lok Kalyan Bhavan, 11-A, Rouse Avenue Lane, New Delhi 110001.

Inter Continent (Travancore) Pvt. Ltd., Pratap Bldg., Connaught Circus, New Delhi 110001.

Jainco Dresses (Regd.), St. No. 8, Kailash Nagar, Delhi 110031.

Jai Shree Wear Corpn., Naughara, Kinari Bazar, Delhi 110006.

Playboy Garments Co., 2/90, Connaught Circle, New Delh 110001.

Shiv Silk Mills, 71/4, Najafgarh Rd., New Delhi 110015.

Wings Wear Pvt. Ltd., 1/4, West Patel Nagar, New Delhi 110008.

Zonare Ties Manufg. Co., C-120, Kirti Nagar, New Delhi 110015.

Gujarat

Evershine, M. R. Colony, Saraspur, Ahmedabad 380018.

Lotus Ind., Udyog Nagar, Rd. No. 3, Udhna.

Mansukhram Exclusive, Gandhi Rd., Ahmedabad 380001.

Rajindra Dyeing & Printing Mills Ltd., Garment Division, Project Office, Calico Mills, Ahmedabad 380022.

Karnataka

Asha Dresses Co., 306-10, S. Chhatram Rd., Bangalore 560009.

Bangalore Clothing Factory, 53, Nagarthpet, Bangalore 560002.

Bangalore Dress Manufg. Co. Pvt. Ltd., 12, Lalbagh Rd., Bangalore 560027.

Binny Ltd., Garment Factory, Hebbal, Bangalore 560006.

Lalitha Dress Manufg. Co., S. Jubilee Park Rd., Bangalore 560002.

Prakash Dress Manufg. Co., Kempegowda Rd., 3rd Cross, Bangalore 560009.

Pravin Dress Manufg. Co., 25, Oakleypuram, Bangalor, 560021.

Swastik Dress Manufg. Co., Seshadripuram, Bangalore 560020.

Warewell (India) Corpn., 2-B, M. Gandhi Rd., Bangalore 560001.

Madhya Pradesh

Mangalchand Hukmi Chand Ind. (M.P.) Ltd., 2, Free Ganj, Shitlamata Bazar, Indore City 452001.

Maharashtra

Airmaster Clothiers, 285, Frere Rd., Bombay 400001.

Ajantha Dresses, 1201, Sukrawar Peth, Pune 411002.

Allwin Garments, 436, A/1, Narayanpeth, Near Lokhande Talim, Pune 411030.

Alpara Dresses, 507, Guruwar Peth, Pune 411002.

Amalgamated Apparels, 28/29, Ideal Estate, Mathuradas Mills Compound, Delisle Rd., Lower Parel, Bombay 400013.

Amar Ind., Lalsingh Bldg., Lohar Chawl, Bombay 400002.
Amardeep Dresses, Ashok Nivas, Ranade Rd., Dadar, Bombay 400028.
Amersey Exports Pvt. Ltd., C/o Milton's Pvt. Ltd., Mathuradas Mills Compound, N. M. Joshi Marg, Lower Parel, Bombay 400013.
Anjana Apparel, 301/309, Tijoriwala Bldg., Block No. 6, Grant Rd. Corner, Bombay 400007.
Anmol Dresses, Fatima Manzil Bldg., Opp. Kabutar Khana, Near Dadar Dept. Stores, Bombay 400028.
Apparel Corpn., H. N. Soni Bldg., Sitabuldi, Nagpur 440001.
Asian Clothing Co., Vasant Nivas, Tulsi Pipe Rd., Dadar, Bombay 400028.
Asiatic Dresses, 10, R. Dadaji St., Near Handloom House, Bombay 400001.
Asiatic Dresses, 344, Budhwar Peth, Pune 411002.
Associated Apparel Pvt. Ltd., Rajmahal, 84, V. Nariman Rd., Bombay 400001.
Babson & Co., Hirji Govindji Estate, T. Jivraj Rd., Sewree, Bombay 400015.
Baby Doll Dress Manufg. Co., 927, Sidheshwar Cloth Market, Sholapur 413002.
Beauca Foundations Inc., Jaman Bldg., 211, Nagdevi St., Bombay 400003.
Bonny Dresses, Elam Mahal, R.B.C.K. Bole Rd., Opp. D'Silva High School, Dadar, Bombay 400028.
Brooklyn Corpn., Daver House, 199, Dr. D. Naoroji Rd., Bombay 400001.
Burlington's Exports, Taj Mahal Hotel, Bombay 400001.
Chetna Children Choice, 193, New Guruwar Peth, Relwala Chowk, Inside Bank of Maharashtra, Pune 411002.
Choudhary Enterprises, 203, A to Z, Ind. Estate, Fergusson Rd., Lower Parel, Bombay 400013.
Climax Apparel, 235, Bazargate St., Bombay 400001.
Continental Apparel Manufg. Co., Mohatta Bhavan, Haines Rd., Worli, Bombay 400018.
Cravatex Ltd., 'Niranjan', 89, N. Subash Rd., Bombay 400002.
Diamond Products, 239-A, Furgusson Rd., Bombay 400013.
Embassy Apparel, 306, Hind Rajasthan Ind. Estate, Naigaum Cross Rd., Wadala, Bombay 400031.
Eves Apparel, 4/5, Akash Deep, Opp. Rly. Crossings, Zakeria Bunder Rd., Sewree, Bombay 400015.
Excel Wear, Allied Silk Mills Compound, 111-113, Dr. Nariman Rd., Near Bengal Chemicals, Bombay 400025.
Fashion Productions, Arvind House, Quay St., Near Sewree Police Station, Reay Rd., Bombay 400010.
Fit-Well Garments, 307, Hind Rajasthan Ind. Estate, Naigaum Cross Rd., Wadala, Bombay 400031.
Five Stars Garments, 825, Budhwar Peth, Sonya Maruti Chowk, Pune 411002.
Fortune Apparels Pvt. Ltd., 107, Adhyaru Ind. Estate, Sun-Mill Comp., Lower Parel, Bombay 400013.
Gajanan Dresses, 249, Shukrawar Peth, Pune 411002.
Garment Enterprises Ltd., Swan Mills Comp., T. Jivraj Rd., Sewree, Bombay 400015.
Garments (Export) Manufg. Co. 22C, Ghatkopar Ind. Estate, L. B. Shastri Marg, Ghatkopar, Bombay 400086.
Gaylord Dresses, 23, Rasta Peth, Pune 411011.
Gem Dress Manufg. Co., 312, Ganj Peth, Pune 411002.
Giriraj Textile Ind. Pvt. Ltd., 107, Churchgate Chamber, New Marine Lines Rd., Bombay 400020.
Goodwill Tie Works, 247, Nagdevi St., Bombay 400003.
Gurudatta Dresses, 1693, Sadashiv Peth, Near S.C. College, Ludha Nivas, Pune 411002.
Hakoba Pvt. Ltd., 95, V. Patel Rd., C.P. Tank, Bombay 400004.
Handloom (India) & Garments Ind. Pvt. Ltd., 59, Forbes St., Bombay 400001.
Han's Textile, 332, Jai Gopal Ind. Estate, Bhawani Shankar Cross Rd., Dadar, Bombay 400028.
Highland Corpn. 24-A, Mughal Lane, Matunga W. R., Bombay 400016.
Hindustan Apparel Ind., Hindustan House, Rd. No. 22, Wagle Ind. Estate, Thana 400604.
Hindustan Clothing Co., Shroff Market, Block No. E-1/E-2, Gokhale Rd., South, Bombay 400028.
Hindustan Dresses, 22, M. Phule Peth, Pune 411002.
Hindustan Garments Ltd., 305-A, Jolly Bhavan, 10, New Marine Lines, Bombay 400020.
Ind. Clothing Co., 79, Medows St., Bombay 400001.
India Overseas Trading Co., 58, Commercial Chambers, Masjid Bunder Rd., Bombay 400003.
Indian Apparels, 412, S. Vivekanand Rd., Bandra, Bombay 400050.
Indian Silk Manufg. Co., 265, Kalbadevi Rd., Bombay 400002.
Indo-Bombay Apparel Traders, Balaram Bhuvan, Grant Rd., Bombay 400007.
Interlink Traders Pvt. Ltd., 121, Masjid Bunder Rd., Bombay 400003.
International Clothing Industries, Shirt House, 87, Ind. Estate, Kandivli (West), Bombay 400067.
Jai Bharat Dress Manufg. Co., 94, Chakla St., Bombay 400001.
Janta Clothing Co., Faizal Bldg., Jail Rd., East, Near Habid Hospital, Dongri, Bombay 400009.
Jayshree Trading Corpn., Mahalaxmi Ind. Estate, Drainage Channel Rd., Morarji Gokuldas Mills Compound No. 2, Lower Parel, Bombay 400013.
Jayshri Garments, 47, East Mangalwar, Sholapur 413002.
J. B. Trading Corpn., 32, Silk House, Girgaum Rd., Bombay 400002.
Jubilee Clothing Co., 20 Off M. Chotani Rd., Mahim, Bombay 400016.
Jubilee Tie Works, 74/80, S. Devjee St., Bombay 400003.
Kabra Garments, 64, Guruwar Peth, Sholapur 413002.
Kalpana Dresses, 1, Jaigopal Ind. Estate, Bhavani Shankar Cross Rd., Dadar, Bombay 400014.
Kalyani Cloth Merchants, 353, Shukrawar Peth, Pune 411002.
Kamal Brassiers Manufg. Co., Motibai Bhuvan, 3-A, Proctor Cross Rd., Grant Rd., Bombay 400007.
Kannaya Dresses, 120, New Guruwar Peth, Pune 411002.
Kaymore Garments, Bank of Maharashtra Bldg., Laxmi Rd., Pune 411002.
Ketan Children Wear, 341, Hind Rajasthan Bldg., D. S. Phalke Rd., Bombay 400014.
Kohinoor Dress Manufg. Co. Pvt., Ltd., 204, K-28, New Shahupuri, Kolhapur.
Kumud Ind. Milton's House, Prabhadevi, Bombay 400025.
Laffans (I.) Exports Pvt. Ltd., 21/23, V. Nariman Rd., Bombay 400001.
Lalan Readymade Manufrs., Gyan Mandir Rd., 6th Ash Lane, Dadar (W.R.), Bombay 400028.
Liflin Wear, 222, Jaigopal Ind. Estate, B. Shankar Cross Rd., Dadar, Bombay 400028.

Liege Garments, 224, Wadala Udyog Bhavan, Ambedkar Rd., Wadala, Bombay 400031.

Literate Wear, 99, Bhuta Sanghvi Estate, New Nagardas Rd., Andheri East, Bombay 400069.

Mafatlal Apparel Manufg. Co., Mehta Mahal, 15, Mathew Rd., Bombay 400004.

Manoj Dress Manufg. Co., 478, Budhwar Peth, Pune 411002.

Mansukh Dress Manufg. Co., 350, Budhwar Peth, Pune 411002.

Masterpiece, 10, R. Dadaji St., Bombay 400001.

Menora Hosiery Works Pvt. Ltd., 75, Nehru Rd., Vile Parle East, Bombay 400057.

Men's Apparel, Kathoke Lodge, Dadar Cross Rd., Bombay 400014.

Merry Maid Manufg. Co., Ishwar Mansion, Opp. Cama Baug, 52, New Charni Rd., Bombay 400004.

Metropolitan Trading Co., Apte Properties, 1076, Off Haines Rd., Worli, Bombay 400018.

Milton's Pvt. Ltd., Mathuradas Mills Comp., N. M. Joshi Marg, Lower Parel, Bombay 400013.

Mita Dresses, 301/309, Tijoriwala Bldg., Block No. 2, Grant Rd. corner, Bombay 400007.

Modern Drapers, York House, Colaba Causeway, Bombay 400005.

Naj Dresses, 260, Ganj Peth, Near Police Station, Pune 411002.

Nalanda Dresses, 205, Somwar Peth, Near Daruwala Bridge, Pune 411011.

Naygara Dresses, 366/68, Shukrawar Peth, Adinath Chowk, Pune 411002.

New Universal Apparel, Parker Bldg., No. 6, 12, C. Patel St., Bombay 400001.

Newlook Brassier Co., 204-J, Shanker Shet Rd., Bombay 400004.

Noble Garments, 482/83, Budhwar Peth, Pune 411002.

Padma Dresses, 37, Shaniwar, Sholapur 413002.

Pan Clothing Factory, C-9, Shri Ram Ind. Estate, 131, Katrak Rd., Wadala, Bombay 400031.

Paradise Clothing Co., 153, S. V. Patel Rd., Bombay 400004.

Paragon Dress Manufg. Co., 1029/2, Sadashiv Peth, Laxmi Rd., Opp. Vijay Talkies, Pune 411030.

Parekh Garments, 137, Jaigopal Ind. Estate, Bhawani Shankar Cross Rd., Dadar, Bombay 400028.

Paville Fashions Pvt. Ltd., Greaves Cotton Bldg., 1, Forbes St., Bombay 400001.

Pearl Products, Jaigopal Ind. Estate, Unit No. 133, B. Shankar Cross Rd., Dadar, Bombay 400028.

Poona Hosiery Mills, 907, New Budhwar Peth, Opp. Gujarat Lodge, Pune 411002.

Popular Dress Manufg. Co., Pethe Bldg., Ranade Rd., Bombay 400028.

Prakash Cotton Mills Pvt. Ltd., 139, N. Master Rd., Bombay 400001.

Prasad Garments, 1138, Sadashivpeth, Opp. Shivaji Mandir, Pune 411002.

Prince Garments, 894, Raviwar Peth, Near Daruwala Bridge, Pune 411002.

Rajkamal Dresses, 1105, Raviwar Peth, Pune 411002.

Rallis India Ltd., Ralli House, 21, Raveline St., Bombay 400001.

Raymonds Woollen Mills Pvt. Ltd., Pokhran Rd., P.O. Jekegram, Thana 400606.

Readywear Dress Manufg. Co., 172, Budhwar Peth, Belbaug Chowk, Pune 411002.

Regent Wear, 93, Bazargate St., Bombay 400001.

Resham Creation, Auto Commerce House, Kennedy Bridge, Nana Chowk, Bombay 400007.

Rightway Hosiery Works, Mungekar Ind. Estate, 13-14, Vishweshwar Nagar, Goregaon, Bombay 400063.

Riviera Apparels Pvt. Ltd., General Assurance Bldg., 232, Dr. D. Naoroji Rd., Bombay 400001.

R. R. Apparel Manufg. Co., 314, Hind Rajasthan Ind. Estate, Naigaum Cross Road, Wadala, Bombay 400031.

Ruby Garments, 325, Budhwar Peth, Pune 411002.

Sainara Apparel, Dady Seth House, 44, C. Patel St., Bombay 400001.

Sainath Trading Corpn., 521/14-15, Kalbadevi Rd., Bombay 400002.

Samir Brothers, Mangaldas Market, Shop No. 8, 7th Lane, Bombay 400002.

Sangam Dresses, 83/85/87, Keshav Bhavan, Khetwadi Back Rd., 7th Lane, Bombay 400004.

Sathee Wear Corpn., 8, National Library Rd., Bandra West, Bombay 400050.

Selection Wear, 105, Jaigopal Ind. Estate, B. Shankar Cross Rd., Dadar, Bombay 400028.

Shree Durga Apparel, 330, Wadala Udyog Bhavan, Wadala, Bombay 400031.

Shreenivas Readymade Clothes Producers Co-op. Society Ltd., 150, T. Pachha Peth, Sholapur 413003.

Shringar Dress Manufg. Co., 361, Budhwar Peth, Pune 411001.

Sona Apparel, 334, Jai Gopal Ind. Estate, B. Shankar Cross Rd., Dadar, Bombay 400028.

Sona Dress Manufg. Co., 480, New Kasba Peth, Pune 411001.

Star Ind., Court House, 298, Carnac Rd., Bombay 400002.

Sterling Enterprises, Tardeo Air Conditioned Market, 3rd Fl., Room No. 14, Tardeo, Bombay 400034.

Styled Apparels, Elar Bldg., 524, Tulsi Pipe Rd., Dadar, Bombay 400028.

Sugam Dresses, Bldg. No. 6, 2nd Fanaswadi, Bombay 400002.

Sunder Garments, 233, Kakad Ind. Estate, Off Lady Jamshedji Rd., Bombay 400016.

Supreme Apparel Manufrs., 72, Champa Gally, Bombay 400002.

Swastik Manufg. Co. 453, Duncan Rd., Bombay 400004.

Tee-Nees Garments Manufg. Co., 208, Shiv Darshan Shopping Centre, M. Gandhi Rd., Santa Cruz East, Bombay 400054.

Tilok Chandani Dresses, 447, Budhwar Peth, Pune 411002.

Todi Ind. Pvt. Ltd., Todi Estate, Sun Mill Rd., Lower Parel, Bombay 400013.

Tots & Toddlers Co., Oomrigar Bldg., Opp. Crawford Market, Bombay 400003.

Tovoy Apparel Corpn., Agarwal Ind. Estate, 139, G(A) S. Vivekananda Rd., Jogeshwari West, Bombay 400060.

Trimfit Corpn., Medows House, Medows St., Bombay 400001.

Turel Garments, 48, Clare Rd., Bombay 400008.

United Garment Manufg. Co., 3/24, Kamal Mansion, Arthur Bunder Rd., Bombay 400005.

Usha Garments Manufg. Co., 306, Jolly Bhuvan, 10, New Marine Lines, Bombay 400020.

Vanguard Dresses, 5 & 6, Shastri Bldg., 41, Gokhale Rd., Dadar W. Rly., Bombay 400028.

Vaswani Dresses, Ramsukh Market, 667, Raviwar Peth, Pune 411002.

Veracity Wear, 94, Raviwar Peth, Pune 411002.

Victor Apparel Pvt. Ltd., 142-C, N. M. Joshi Marg, Parel, Bombay 400013.

Vidya Dresses, 512, Sakharpeth, Sholapur 413001.

Wearwell Garments, Room No. 408, 4th Fl., Hind Rajasthan Bldg., D. S. Phalke Rd., Bombay 400014.

Western Garments Manufg. Co., 308/312, Hind Rajasthan Ind. Estate, Naigaum Cross Rd., Wadala, Bombay 400031.

Wings Wear (Pvt.) Ltd., 7-A, Ramachandra Bldg., 280, Carnac Rd., Opp. G.T. Hospital, Bombay 400002.

Rajasthan

Readicut, Mirza Ismail Rd., Jaipur 302001.

Tamil Nadu

Asian Apparels, 81/82, Pondy Bazar, T. Nagar, Madras 600017.

Chellaram Garments Pvt. Ltd., 181/182, Mount Rd., Madras 600002.

Coromandel Garments Ltd., Ind. Estate, Plot No. 21, Ambathur, Madras 600058.

Danand Ind., No. 1, Pooni Nagar, Arasaradi, Madurai 600016.

Garments International, 2nd Fl., 19-A, Woods Rd., Madras 600002.

Goyal's Dresses, 109, Mount Rd., Goyal's Nivas, Madras 600018.

Kiddies Corner, 175/1, Mount Rd., Madras 600002.

Lakme Garments, 31/2, S. Naicken St., Madras 600007.

Madras Clothing Co., No. 21, Bobegan Sahib St., Mount Rd., Madras 600002.

Madras Garments, 274, T. Chetty St., Madras 600001.

T. S. Hajee Moosa & Co., 95, Godown St., Madras 600001.

Zoro Garments Pvt. Ltd., 1/43, Broadway, Madras 600001.

Uttar Pradesh

Acme Wears Pvt. Ltd., C-94/1, Ind. Area, Bulandshahr Rd., Ghaziabad 201001.

Kupid Children Wear, 24/53, Birhana Rd., Kanpur 208001.

West Bengal

Bagrees Pvt. Ltd., 201-B, M. Gandhi Rd., Calcutta 700007.

Hindustan Garments, 10/1, Marquis St., Top Fl., Calcutta 700016.

Kabra Clothing Corpn., 174-A, J. Bajaj St., Calcutta 700007.

Mercantile Corpn., 6/1, Sudder St., Calcutta 700016.

Poddar Dress Manufg. Co., 154, J. Bajaj St., Calcutta 700007.

Radhakrishan Sagarmull, 63, G. T. Rd. (South), Howrah 711101.

United Engg. Corpn., 72, Canning St., Calcutta 700002.

GASES

Asiatic Oxygen Ltd., Old Madras Rd., Avalahalli, Bangalore 560040.

Bombay Gas Co. Ltd., Empire House, 214, Dr. D. Naoroji Rd., Bombay 400001.

Indian Oxygen Ltd., Oxygen House, P-34, Taratalla Rd., Calcutta 700053.

Hindustan Gas & Ind. Ltd., 10, Camac St., Calcutta 700017.

Hindustan Oxygen & Acetylene Co., 28, New Rohtak Rd., New Delhi.

Natural Gas Co. Pvt. Ltd., 53/57, Laxmi Bldg., Sir P. Mehta Rd., Bombay 400001.

GAS CYLINDERS

Hyderabad Allwyn Metal Works Ltd., Sanat Nagar, Hyderabad 500018.

GAS FITTINGS

Natural Gas Co. Pvt. Ltd., 53/57, Laxmi Bldg., Sir P. Mehta Rd., Bombay 400001.

GAS LAMPS — LANTERNS

Optimohur Ind. Pvt. Ltd., Manu Mansion, 16, S. B. Singh Rd., Bombay 400001.
(See 'Lantern & Stoves' in this list)

GAS PLANTS

Mansfield Oil Gas Co. Ltd., 16 R. Chowdhury Rd., Calcutta 700015.

Mechanical Machinery Makers Pvt. Ltd., 67, Ekdalia Rd., Calcutta 700019.

SF India Ltd., P.O. & Village Jalkhura, 24 Parganas.

GASKETS

Cypher Engg. Co., 19AB, Nandanvan Ind. Est., Thana 400601.

Dikson & Co., 8, Bharat House, Apollo St., Bombay 400001.

Gaskets and Radiators Pvt. Ltd., B. Padra Rd., Vadodara 390001.

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Krishna Engg. Works, 8712, Aram Ganj, Roshanara Rd., Delhi 110007.

Gujarat

Elecon Engg. Co. Ltd., Vallabh Vidyanagar.

Jacks Engg. Works, Shastri Saghu, Udyognagar, Tavdipur, Ahmedabad 380004.

Haryana

Napco Beval Gears of India Ltd., Faridabad 121001.

Karnataka

Craft Tools Pvt. Ltd., B1/2, Ind. Estate, Harihar.

Madhya Pradesh

Gajra Gears, Dewas 455001.

Maharashtra

Afco Ltd., Madh Island, Bombay 400059.

Britex Ind., 11, Noble Chambers, Ghogha St., Bombay 400001.

Communications & Power Equipment Co. Ltd., Ind. Estate, Lalbagh, Bombay 400012.

David Brown Greaves Pvt. Ltd., Forbes St., Bombay 400001.

Divgi Metalwares Pvt. Ltd., 9A, Yerandwana, Karve Rd., Pune 411004.

Emvee Engg. Works, 384, V. Savarkar Marg, Bombay 400025.

Gajra Gears, Green House, Green St., Bombay 400001.

Gala Gears, D-1/A, Nandanvan Ind. Est., Shastri Marg, Thana 4000604.

Ghatge Patil Ind. Pvt. Ltd., Uchagaon, Kolhapur.

Hindustan Gears Pvt. Ltd., Ind. Estate, Ogalewadi, Satara Dist.

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Prime Engg. Works, A-13, Road 22, Wagle Ind. Estate, Thana 400604.

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Ramon & Demm Ltd., S. Vivekanand Rd., Thana 400601.

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Teknoworks (India), L. Bahadur Shastri Marg, Bhandup, Bombay 400078.

Walchandnagar Ind. Ltd., P. O. Walchandnagar, Satara Dist.

Tamil Nadu

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Gears India, B-1, Ind. Estate, Guindy, Madras 600001.

West Bengal

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Calicut Engg. Works Pvt. Ltd., 54-4-B, Strand Rd., Calcutta 700001.

Deepak Ind. Ltd., 16, Hare St., Calcutta 700001.

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General Commercial Corpn. (Delhi), 3575, N.S. Marg, Darya Ganj, Delhi 110006.

Gujarat

Jyoti Ltd., Ind. Area, Vadodara 390003.

Karnataka

Kirloskar Electric Co. Ltd., Ind. Suburb, Rajaji Nagar, Bangalore 560010.

Madhya Pradesh

Heavy Electricals India Ltd., P.O. Piplani, Bhopal 462021.

Maharashtra

Asia Electric India Pvt. Ltd., Asia House, Goa St., Bombay 400001.

Elmot Engg. Co. Pvt. Ltd., 2 Udyognagar, S. V. Rd., Goregaon West, Bombay 400062.

Emco Electric (Pvt.) Ltd., 94, Medows St., Fort, Bombay 400001.

National Electric Ind. Ltd., Ind. Estate, Lalbaugh, Bombay 400012.

Punjab

Beegee Corpn., 25, Factory Area, Patiala 147002.

West Bengal

Asia Electric India Pvt. Ltd., 4, Tyons Range, Calcutta 700001.

British India Electric Construction Co. Ltd., 21, F. Subash Rd., Calcutta 700001.

Indian National Diesel Engine Co. Ltd., Hall and Anderson Bldg., Park St., Calcutta 700016.

J. Stone & Co. (I) Pvt. Ltd., 16, Taratolla Rd., Calcutta 700053.

Motor & Machinery Manufrs. Ltd., 3/1, K. B. Sen St., Calcutta 700007.

GLASS, GLASS AMPOULES & VIALS

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Mahalakshmi Glass Works Pvt. Ltd., Sanat Nagar, Hyderabad 500018.

Bihar

Seraikella Glass Works Pvt. Ltd., Kandra, Singhbhum Dist.

Delhi

Bawa Glass Works, N-109, Panchshil Colony, New Delhi 110017.

Dhruv-Ganthe & Co. Pvt. Ltd., 8, Padmini Enclave, Hauz Khas, New Delhi 110016.

Hindustan Safety Glass Works Pvt. Ltd., 6511, Fatehpuri, Delhi 110006.

Pioneer Glass Works, Opp. Juma Masjid Dispensary, Delhi 110006.

Sylvania & Laxman Ltd., 68/2, Najafgarh Rd., New Delhi 110015.

Gujarat

Alembic Glass Industries Ltd., Alembic Rd., Vadodara 390003.

Oval Glass Industries, Kanji, Kaira Dist.

Sarabhai Glass, P. B. 144, Subhanpura, Vadodara 390001.

Shree Vallabh Glass Works Ltd., Anand-Sojitra Rd., Vallabh Vidyanagar.

Haryana

Hindustan National Glass & Industries Ltd., Bahadurgarh, Rohtak Dist.

Hindustan Vacuum Glass Ltd., Faridabad 121001.

Karnataka

Alembic Glass Industries Ltd., Whitefield, Bangalore Dist.

Bengal Electric Lamp Works Ltd., Old Madras Rd., (13th Mile), Bangalore 560036.

Mysore Crystal Glass Industries, Tannery Rd., Nagavara, Bangalore 560002.

United Glass Bottles Manufg. Co. Pvt. Ltd., 9, Seshadri Rd., Bangalore 560009.

Kerala

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Maharashtra

Ajit Glass Works Pvt. Ltd., S. Vivekananda Rd., Jogeshwari, Bombay 400060.

All India Glass Works Pvt. Ltd., 111, Bhandari St., Bombay 400003.

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Bombay Glass Works Pvt. Ltd., Manmala Tank Rd., Mahim, Bombay 400016.
Borosil Glass Works Ltd., Marol-Maroshi Rd., Off. Military Rd., Bombay 400059.
Crystal Glass Works Pvt. Ltd., Commercial House, P.B. 16575, Dr. A. Besant Rd., Worli, Bombay 400018.
Eagle Vacuum Bottle Manufg. Co. Pvt. Ltd., 144/46, S. Devji St., Bombay 400003.
Empire Dyeing & Manufg. Co. Ltd., Vitrum Glass Division, Bombay-Agra Rd., Vikhroli, Bombay 400083.
Fibreglass Pilkington Ltd., 9, Wallace St., Bombay 400001.
Furnace Corpn., Empire Estate, Kondivita Rd., Off. Andheri-Kurla Rd., Bombay 400059.
Glass Containers Pvt. Ltd., Saki Vihar Rd., Saki-Naka, Bombay 400072.
Haldyn Glass Works Pvt. Ltd., Off Western Express Highway, Goregaon East, Bombay 400063.
Hargovind Dharmsi & Co., 344, New Nagpada Rd., Bombay 400008.
Jg Glass Industries Pvt. Ltd., Bombay-Agra Rd., Pimpri, Pune 411018.
Kangan Pvt. Ltd., 208, Lady Jamshedji Rd., Bombay 400016.
Kapoor Industries, Old Pokhran Rd., Thana.
Kishore Industries, 174, Dr. D. N. Rd., Bombay 400001.
Krishna Glass Pvt., Ltd., 23, Yusuf Bldg., 42, V. Nariman Rd., Bombay 400001.
Krishna Silicate & Glass Works Pvt. Ltd., Vivekananda Rd., Thana.
Mahalakshmi Glass Works Pvt. Ltd., Dr. Moses Rd., West, Jacob Circle, Bombay 400011.
M. A. Kachwalla & Sons, 97-99, Dhanji St., Bombay 400003.
Mahomedally Valji Arsiwalla, 76, A. Rehman St., Bombay 400003.
Ogale Galss Works Ltd., Ogalewadi, Satara Dist 415001.
Ogale Glass Works Ltd., Pimpri, Pune 411018.
Paisa Fund Glass Works, Talegaon-Dabhade, Pune Dist.
Paramount Trdg. Syndicate Pvt. Ltd., 183, Bazargate St., Bombay 400001.
Patanwala Glass Works Pvt. Ltd., L.B. Shastri Marg, Ghatkopar (West), Bombay 400077.
Philips India Ltd., Plot No. 3, M.I.D.C. Ind. Area, Thana-Belapur Rd., Thana 400601.
R. D. Ashar Engg. Division, Bruce St., Bombay 400001.
Safeglass Corpn. Pvt. Ltd., 10-12, Gowalia Chawl Lane, Near Prakash Cotton Mills, Worli, Bombay 400013.
Samir Glass Traders, 21-23, Dhanji St., Bombay 400003.
Star Glass Works, 299, Kurla-Andheri Rd., Kurla, Bombay 400072.
Swastik Glass Works, Bahupet, P.O. Chanda, Chanda Dist.
Talwalker Bros. Pvt. Ltd., W.R. 74, Sherif House, S. Bhagatsing Rd., Bombay 400001.
The Topaz Glass Pvt. Ltd., Eagle Estate, P.O. Talegaon, Pune Dist.
Vazir Glass Works Ltd., J.B. Nagar, Andheri-Kurla Rd., Bombay 400059.
V. Gopaldas & Co., 299, Y. Meherally Rd., Masjid Bunder, Bombay 400003.
Vitrum Glass Products, Bombay-Agra Rd., Vikhroli, Bombay 400079.

Tamil Nadu

Attur Glass Industries Pvt. Ltd., Attur, Salem Dist.
Central Glass Factory, 403, Mint St., Madras 600001.
South India Glass & Enamel Works Ltd., 172, Cherry Rd., Salem 636007.
Vir Glass Works, 183, Madhavaram High Rd., Madhavaram, Madras 600060.

Uttar Pradesh

Advance Glass Works, Station Rd., Firozabad, Agra 282001.
Allahabad Glass Works Pvt. Ltd., Naini, Allahabad Dist.
C.B. Glass Works, Etmadpur, Agra 282001.
Ganga Glass Works Pvt. Ltd., Balawali Bijnor Dist.
Hind Lamps Ltd., Shikohabad.
Khandelwal Glass Works, Sasni, Aligarh Dist.
Mohan Crystal Glass Works, Mohan Nagar, Ghaziabad 201001.
Narayan Glass Works, Sadar Bazar, Firozabad, Agra 282001.
The Paliwal Glass Works, Shikohabad.
U. P. Glass Works Ltd., Bahjoi, Mordabad Dist.

West Bengal

Annapurna Glass Works Pvt. Ltd., Raja S.C. Mallick St., Calcutta 700032.
Ashoke Glass Works, 9, Ezra St., Calcutta 700001.
Asoka Glass Industries, P.O. Raniganj, Burdwan Dist.
Bengal Electric Lamp Works Ltd., 4, Fairle Place, Calcutta 700001.
Electric Lamp Manufrs. (Ind.) Pvt. Ltd., 1, Taratolla Rd., Garden Reach, Calcutta 700024.
Hindustan National Glass & Industries Ltd., 2, Wellesley Place, Calcutta 700001.
New Indian Glass Works Pvt. Ltd., Rawdon St., Calcutta 700016.
Saraikella Glass Works Pvt. Ltd., P.O. Konnagar, Hooghly Dist.
S. G. Traders, P 23/24, R. Bazar St., Calcutta 700001
Shiva Glass Works Co. Ltd., 27, Brabourne Rd., Calcutta 700001.

GLASS BOTTLES

Ajit Glass Works Pvt. Ltd., S. Vivekananda Rd., Bombay 400060.
Associated Glass Ind. Ltd., Varadanagar, Sanatnagar, Hyderabad 500018.
Bombay Glass Works Pvt. Ltd., Manmala Tank Rd., Mahim, Bombay 400016.
Haldyn Glass Works Pvt. Ltd., Off Western Express Highway, Goregaon East, Bombay 400063.
Mahalakshmi Glass Works Pvt Ltd., Sanatnagar, Hyderabad 500018.
National Glass Bottle Co., 4, 'Ararat', 89, Medows St., Fort, Bombay 400001.
Standard Bottles Supply Co., 88, Ragipet, Bangalore.
United Glass Works Pvt. Ltd., 111, Bhandari St., Bombay 400003.

GLASS—CURVED SAFETY GLASS & MIRRORS

Atul Glass Ind., 3/9, D. B. Gupta Rd., New Delhi 110055.
Hindustan Safety Glass Works Pvt. Ltd., 2, St. George's Gate Rd., Hastings, Calcutta 700022.
Shree Vallabh Glass Works Pvt. Ltd., 20, Old Customs House Rd., Sylvester Bldg., Bombay 400001.

GLASS—WIRED AND FIGURED

Hindustan Pilkington Glass Works Ltd., Hindustan Bldg., 4, Chittaranjan Av., Calcutta 700001.

Shree Vallabh Glass Works Pvt. Ltd., 20, Old Custom House Rd., Sylvester Rd., Bombay 400001.
Window Glass Ltd., B-5, Gillander House, 8, Netaji Subhash Rd., Calcutta 700001.

GLOVES

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Gramophone Co. of India Ltd., 33, Jessore Rd., Dum Dum, Calcutta 700028.
Hindustan Musical Products Ltd., 6/1, A. Dutt Lane, Calcutta 700012.
Polydor of India Ltd., Ashok Nagar Rd., Bombay 400067.

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Eastern Linkers Pvt. Ltd., Odeon Bldg., Connaught Place, New Delhi 110001.
Everest Export & Agencies, C-9, Maharani Bagh, New Delhi 110014.
Indian Arts & Crafts Syndicate, 2666, Ballimaran, Delhi 110006.
N. K. Overseas Traders, M-30A, Greater Kailash I, New Delhi 110048.
Paramount Traders, 4/47, W.E. Area, Karol Bagh, New Delhi 110005.
R. D. Ramnath Co., Jama Masjid, Delhi 110006.
Reliance International Corpn., 4/2B, Asaf Ali Rd., New Delhi 110001.
S. Nath Kakar & Son, 41, Hanuman Rd., New Delhi 110001.
S. Ram Singh & Sons, 119, New Qutab Rd. Market, Delhi 110006.

Gujarat

India Handicrafts, 2751, Tilak Rd., Kadia Kui, Ahmedabad 380001.

Maharashtra

Alfani Corpn., 1, Nagdevi St., Bombay 400003.
Bharat Ind. Corpn., 31, Fort St., Bombay 400001.
E. Peerbhoy & Sons, 64, Mohd-Rd., Shahru-Castle, Bombay 400003.
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Narang (Overseas) Co. Pvt. Ltd., 93, B. Desai Rd., Bombay 400026.

Tamil Nadu

John & Co., 'Burma House', 16, Coral Merchant St., Madras 600001.
Lotus Ind. Ltd., "Burma House", 16, Coral Merchant St., Madras 600001.

West Bengal

East India Trdg. Co., 2, Church Lane, Calcutta 700001.
Haji Lungi Co., 20, Zakaria St., Calcutta 700001.

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Ghaziabad Engg. Co. Pvt. Ltd., 42, Janpath, New Delhi 110001.
Prestige Electronics Pvt. Ltd., 16-B, Connaught Place, New Delhi 110001.

Gujarat

Panchal Engg. Works, Dariapur, Char Rasta, Ahmedabad 380001.

Karnataka

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Swarna Electricals, 73, 1st Main Rd., Tata Silk Farm, Bangalore.

Maharashtra

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B. R. Hermann & Mohatta (India) Pvt. Ltd., Mustafa Bldg., Sir P. Mehta Rd., Bombay 400001.
Chetan Electric Ind., Allied Ind. Estate, Unit No. 125, M. M. Chhotani Rd., Mahim (West), Bombay 400016.

Commonwealth Electrical Ind., 116, Himalaya House, Palton Rd., Bombay 400001.

Diamond Electrical Engrs., Parikh Niwas, 57, Marve Rd., Malad (West), Bombay 400064.

Economic Electric Co. Pvt. Ltd., Jail Rd., East, Dongri, Bombay 400009.

Economy Engg. Corpn., 19, Bank St., Bombay 400001.

Electronic Appliances Pvt. Ltd., A-Z, Ind. Estate, Fergusson Rd., Bombay 400013.

Giri Industries, Empire Ind. Estate, Galla Nos. 15, 16, 17, 18, Kondivita Rd., J. B. Nagar, Andheri (East), Bombay 400069.

Industrial Control & Appliances Pvt. Ltd., 47-49, Chakala Rd., Andheri, Bombay 400058.

Janata Works Pvt. Ltd., 162, Tulsi Pipe Rd., Bombay 400013.

Kissan Manufg. Industries Pvt. Ltd., 186 Zakaria Bunder Rd., Bombay 400015.

Lamda Industries, 201, Neelam, 108 Worli Seaface Rd., Bombay 400018.

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Punjab

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Universal Engg. Works, Sultanwind Rd., Amritsar 143001.

Tamil Nadu

Electro-Mech. Instruments, 49, T. H. Rd., Madras 600019.

Hygrodyn Pvt. Ltd., 1/155, Mount Rd., Madras 600002.

Murugan Electricals, 4, Brunton Cotton Press Rd., Madras 600013.

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West Bengal

ACC-Vickers-Babcock Ltd., Durgapur.

Adair Dutt & Co. (India) Ltd., 5, Dalhousie Sq. (East), Calcutta 700001.

Beni Engg. Ltd., 1, Crooked Lane, Calcutta 700001.

Bharat Sheet Metal Industries Ltd., 36A & B, Pratapaditya Rd.,Calcutta 700020.

Everest Appliances Pvt. Ltd., 12, Nirmal Chandar St., Calcutta 700013.

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Getz Bros. & Co., Inc., 9, Brabourne Rd., Calcutta 700001.

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Jay Engg. Works Ltd., Prince Anwarshah Marg., Calcutta 700001.

Sur Industries Pvt. Ltd., 163, Acharya J. B. Rd., Calcutta 700014.

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Shree Bhagwati Hosiery Mills Pvt. Ltd., Central Jail Rd., Bhagalpur 812001.

Delhi

Deen Bandhu Hosiery Mills Pvt. Ltd., Joshi Rd., Karol Bagh, New Delhi 110005.

Jainco Hosiery Mills, 5633, Qutab Rd., New Delhi 110001.

Gujarat

Ambica Hosiery Works, 14/15, Muni Ind. Est., Ahmedabad 380021.

Amir Hosiery Factory, Jyotingshah Pirs Pole, Kalupur, Ahmedabad 380001.

Fine Knitting Co. Ltd., Asarwa, Ahmedabad 380016.

Shree Digvijay Woollen Mills Ltd., Aerodrome Rd., Jamnagar 361001.

Universal Hosieries Ltd., Billimora 396321.

Jammu & Kashmir

Kashmir Knitting Co., Parade Ground, Jammu Tawi 180001.

Karnataka

Zenith Knitting Works, Shivaji Nagar, Belgaum 590001.

Kerala

Aysa Hosiery Factory Pvt. Ltd., P.O. Palaparamba, Tellichery 670101.

Commonwealth Trust Ltd., Kozhikode 673001.

Madhya Pradesh

Orimpex Knitters, 6, Ind. Estate, Gwalior 474001.

Maharashtra

Akola Knitting Works, Teh Pura, Akola 444001.

Bharat Knitting Works Ltd., 524, Budhwar Peth, Pune 411002.

Dawn Mills Co. Ltd., Fergusson Rd., Bombay 400013.

Kastur B, Ind, Pvt, Ltd., Forjett St., Cross Lane, Bombay 400026.

Mayfair Hosiery Works, Laxmi Woolen Mills Compound Haines Rd., Bombay 400011.

Menora Hosiery Works Pvt. Ltd., 75, Nehru Rd., Bombay 400057.

Rolex Hosiery Pvt. Ltd., 142-C, Delisle Rd., Bombay 400013.

Shree Jain Hosiery Works Pvt. Ltd., 30 Old Hanuman Lane, Bombay 400002.

Orissa

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Punjab

Advance Hosiery Mills, Advance St., Ludhiana 141001.
Amar Hosiery Works, Hazuri Rd., Ludhiana 141001.
Angoora Hosiery Mills, Dal Bazar. P.B. No, 80, Ludhiana 141001.
Ashoka Knitting Works, Dal Bazar, Ludhiana 141001.
Bajaj Hosiery Factory, Madhopuri No. 1, Ludhiana 141001.
Beantex Hosiery, Chawal Bazar, Ludhiana 141001.
Broadway (India) Knitting Co., Outside Chatiwind Gate, Amritsar 143001,
Charanjiv Hosiery Factory, Civil Lines. Ludhiana 141001.
Commonwealth Spinning and Knitting Mills Pvt. Ltd., Ind. Area A, Ludhiana 141001.
Gandhi Hosiery Works, P.O. Appra, Jullundur Dist.
Greatway, Civil Lines, Ludhiana 141001.
Hero Knitting Works, 272, Ind. Area A, Ludhiana 141001.
K.K.K. Mills, 349, Chawal Bazar, Ludhiana 141001.
Ludhiana Hosiery Workers Co-op. Ind. Soc. Ltd., Chaura Bazar, Ludhiana 141001.
Maini Hosiery Works, Bazar Sarfan, Ludhiana 141001.
Minerva Hosiery Mills Pvt. Ltd., Civil Lines, Ludhiana 141001.
Nationals Ltd., Civil Lines, Ludhiana 141001.
Omi Ltd., Sangalwala, Shiwala Rd., Ludhiana 141001.
Rai Bahadur Knitting Works, Ind. Area A, Ludhiana 141001.
Rover Hosiery Factory, Madhopuri, Kucha No. 2, Ludhiana 141001.
S. D. Hosiery Mills, Purani Kotwali, Chaura Bazar, Ludhiana 141001.
Shahzada Hosiery Mills, B IV/278, Shahzadá St., P.O. Box 40, Ludhiana 141001.
Shreeman Hosiery Works, Madhopuri, Ludhiana 141001.
Sind Knitwears Pvt. Ltd., G. T. Rd., Ludhiana 141005.
Sutlej Hosiery Mills, 228, Ind. Area A, Ludhiana 141001.
Talwar Hosiery Mills, Talwar Bldg., Brahmpuri, Ludhiana 141001.
Windsor Hosiery Factory, Hindi Bazar, Ludhiana 141001.
York Hosiery Mills Pvt. Ltd., York House, Civil Lines, Ludhiana 141001.

Rajasthan

Jaipur Hosiery Mills Pvt. Ltd., 13 Adarsh Nagar, Ind. Area, Jaipur 302001.
Mewar Textiles Mills Ltd., Bhilwara 311001.

Tamil Nadu

Modern Knitting Works Ltd., Tanjore 613001.

Uttar Pradesh

Agra Hosiery Factory, Freeganj, Agra 282001.
Benares Hosiery Ltd., Thatheri Bazar, Varanasi 221001.
British India Corpn. Ltd., Cawnpore Woollen Mills Branch, Kanpur 208001.
Jwala Fabrics. P.O. Jwalanagar, Rampur 244901,
Misra Hosiery Mills, Ind. Area, P.O. Box No. 254, Kanpur 208001.
Rampur Hosiery, Kuncha Qazi, Rampur 244901.
Shree Vikram Cotton Mills Ltd., Talkatora Rd., Lucknow 226001.

West Bengal

Amiya Hosiery Mills Pvt. Ltd., 4. Mahendra Goswami Lane, Calcutta 700006.
Arabindra Hosiery Mills, 16-B, Beneatolla St., Calcutta 700005.
Asia Hosiery Mills Pvt. Ltd., 73/8, Grey St., Calcutta 700006.
Banga Luxmi Hosiery Mills Pvt. Ltd., 1/4-C, Khagendra Chatterji Rd., Calcutta 700002.
Bankey Lall Gopinath Pvt. Ltd., 203, M. Gandhi Rd., Calcutta 700003.
G. S. Emporium Ltd., 47A, Chittaranjan Ave., Calcutta 700001.
Hind Hosiery Mills Pvt. Ltd., 161/A, M. Gandhi Rd., Calcutta 700007.
India Hosiery Mills Pvt. Ltd., 16, India Exchange Place, Calcutta 700001.
Mira Knitting Works Pvt. Ltd., 31, Rovert St., Calcutta 700012.
Pioneer Knitting Mills Ltd., Pioneer Bldg., 6/1A, P. Soor Lane, Calcutta 700002.
Swan Textiles Works Pvt. Ltd., 61, Russa Rd., East First Lane, Calcutta 700061.
Vinar Ltd., 2A, Theatre Rd., Calcutta 700016.

HOSPITAL EQUIPMENT

(See under Medical Equipment).

HUMAN HAIR PRODUCTS

East India Trdg. Co., 2, Church Lane, Calcutta 700001.

HURRICANE LANTERNS

India Industrial Works, 55/1, Dharamtalla Rd., Howrah 711101.
J. L. Sharma & Sons. 14, Rohtak Rd., New Delhi 110005.
Ogale Glass Works Ltd., Ogalewadi, Satara Dist.
Oriental Metal Ind. Pvt. Ltd., Agarpara, 24 Parganas.
Universal Lamp Manufg, Co. Pvt. Ltd., 93-B, Ripon Rd., Calcutta 700001.

HYDRAULIC EQUIPMENT

C. Bole & Co., 61, N. Dhuru St., Bombay 400003.
Fluid Power Pvt. Ltd., 11, Rock House, Worli Hill Rd., Bombay 400018.
Garlick & Co. Pvt. Ltd., Haines Rd., Jacob Circle, Bombay 400011.
Hind Equipment Corpn. Pvt. Ltd., 24B, Hamam St., Bombay 400001.
Hindustan Machine Tools Ltd., Bangalore 560031.
Indudyog Co. Pvt. Ltd., 40, Okhla Ind. Estate, New Delhi 110020
Krampe Hydraulik (India), 105, Churchgate Chambers, 5, New Marine Lines, Bombay 400020.
Larsen & Toubro Ltd., L & T House, Ballard Estate, Bombay 400038.
Maneklal & Sons, 115, N. Dhuru St., Bombay 400003.
Marsan Machinex, 76, Erla Bridge, Andheri, Bombay 400058.
The Oriental Engineering Works Pvt. Ltd., Ind. Area, Yamuna Nagar, Ambala Dist., Haryana.
Power Hydraulics, 3/11, Navjeevan Society, Lamington Rd., Bombay 400008.
Ram Precision Products Pvt. Ltd., Gopalbagh, Coimbatore 641001.
Schrader-Scovill Duncan Ltd., Mulund, Bombay 400080.
Sterling Hydraulic Co., 142, S. Vivekanand Rd., Bombay 400060.
Veljan-Hydrair Pvt. Ltd., Balanagar, Hyderabad 500037.
Workwell Engineers, Behind Sukhramnagar, Rakhial, Ahmedabad 380021.

ICE PLANTS

Blue Star Ltd., Kasturi Bldg., J. Tata Rd., Bombay 400020.

Bombay Ammonia Pvt. Ltd., 298, V. Nariman St., Bombay 400001.

Frick (India) Ltd., Jeevan Vihar Bldg., Parliament St., New Delhi 110001.

Ice Machinery Mart, Barafkhana, Gwalior, Madhya Pradesh.

Kirloskar Bros. Ltd., Kirloskarwadi, Satara Dist.

Kirloskar Pneumatic Co. Ltd., Hadaspar Ind. Est., Pune 411013.

Larsen & Toubro Ltd., L. T. House, N. Morarji Marg, Ballard Estate, Bombay 400038.

IMITATION JEWELLERY

Goldfield Mercantile Co., 24, Chakala Rd., Andheri East, Bombay 400069.

Sharda Manufrs., 32, 3rd Bhoiwada, Bhuleshwar, Bombay 400002.

INCINERATORS

Loop Engg. Consultants Pvt. Ltd., Sunder Mahal, N. Subash Rd., Bombay 400020.

INCUBATORS—EGG

Andhra Scientific Co. Ltd., Masulipatnam 521001.

INK MAKING MACHINERY

Doshi Engg. Works, Nagardas Rd., Andheri, Bombay 400069.

N. C. Industries, New Cloth Market, Ahmednagar 414001.

Pioneer Engrs., 57, Apollo St., Bombay 400001.

INSTRUMENTS — SCIENTIFIC

Andhra Pradesh

Andhra Scientific Co. Ltd., Cantonment Rd., Masulipatnam 521001.

Arjun Electronics Pvt. Ltd., Bashir Bagh, Hyderabad 500001.

Bio-Visual Products, 1-5-7/2, Husherabad, Hyderabad 500020.

Electronics Corporation of India Ltd., Ind. Devpt. Area Cheralapalli, Hyderabad 500040.

Elico Pvt. Ltd., B-17, Ind. Estate, Sanatnagar, Hyderabad 500018.

Instrument Techniques Laboratory, B-2, Co-op. Ind. Estate, Balanagar, Hyderabad 500037.

Vijay Scientific Equipment, P.O. Buckinghampet, Vijayawada 520002.

Bihar

Bihar Scientific Corpn., P.B. 34, Patna 800004.

Delhi

Allied Scientific Engg. Corpn., 10/15, Dakhshni Marg, Rajendra Nagar, New Delhi 110005.

Andhra Scientific Co. Ltd., A. Ali Rd., New Delhi 110001.

Associated Instrument Manufrs. (I) Pvt. Ltd., 26/27, A. Ali Rd., New Delhi 110001.

Batra & Co., A-136, Defence Colony, New Delhi 110003.

Capital Scientific Instruments Pvt. Ltd., 6, N. Subash Marg, Darya Ganj.

Cheena Corpn. 7/32, Darya Ganj, P.B. 1728 Delhi 110006.

Dulta Scientific Works, 3, Shri Ram Bldg., Jawahar Nagar, Delhi 110007.

Electric Instrumentation, Siddiq Bldg., Ghodbunder Rd., Delhi 110006.

Electronic Devpt. Laboratory, F-1/16, Ansari Rd., Darya Ganj, Delhi 110006.

Hindustan Scientific Instruments Co., J-114-A, Kirti Nagar Ind. Area, New Delhi 110015.

Industrial Electronics, 100-U.B. Jawahar Nagar, Delhi 110007.

Instruments India Pvt. Ltd., Akash Deep Bldg., 16-A, Barakamba Rd., New Delhi-110001.

Macro Scientific Works, 10 A/U.A., Jawahar Nagar, Delhi 110007.

National Scientific Instruments Co., 37/38, U.B. Block, Jawahar Nagar, Delhi 110006.

Neulite Engg. Corpn., 63-64, Hari Nagar Ashram, Mathura Rd., New Delhi 110014.

Optical Instrumentation (India), 21, Beadon Pura, Karol Bagh New Delhi 110005.

Salooja Bros. Pvt. Ltd., 8/34, Kirti Nagar, Ind. Area, New Delhi 110015.

Scientific Corporation, 4/9, A. Ali Rd., New Delhi 110001.

Scientific Equipment Works, 1/777, Nicholson Rd., Delhi 110006.

Scientific Instruments Co. Ltd., B/7, Ajmeri Gate Ext., New Delhi 110001.

Scientific Refrigeration Enterprise, K-106, Kirti Nagar, New Delhi 110015.

Sambros & Co., A-3/15, A Ali Rd., New Delhi 110001.

S. G. Engg., Co., 67, G. B. Rd., Delhi 110006.

Stead Electronics Ind., 17 U. A. Jawahar Nagar, Delhi 110007.

Toshniwal Bros. Pvt. Ltd., 3/E/8, Jhandwalan Ext. Link Rd., New Delhi 110055.

Towa Optics (I) Pvt. Ltd., 4, Darya Gunj, Delhi 110006.

Widson Scientific Works, 10, West Sadar Thana Rd., Delhi 110006.

Gujarat

Atlas Radio & Electronic Ind. Pvt. Ltd., Plot No. 57, G.I.D.C. Industry Township, Naroda, Ahmedabad.

Jintan Clinical Thermometers Co. (I) Pvt Ltd., Surendranagar, Saurashtra.

Precision Industries, B-10, G.I.D.C. Ind. Estate, Naroda.

Systronics, Div. of Sarabhai Sons Pvt. Ltd., 89/92, Ind. Area, Naroda P.O., Ahmedabad.

Haryana

Continental Device India Ltd., 14/5, Mathura Rd., Faridabad 121001.

Eastern Electronics (Delhi) Pvt. Ltd., 1-2, Ind. Estate Township, Faridabad 121001.

Electrofones, P.B. 15, Timber Market, Ambala Cantt. 133001.

Instruments & Chemicals Ltd., Model Town, Ambala City-133003.

Jain Scientific Glass Works, Ambala Cantt. 133001.

Modern Equipment Co., Hargolal Rd., Ambala Cantt. 133001.

Oriental Science Apparatus Workshop, Alexandra Rd., Ambala Cantt. 133001.

Taylor Instrument Co. (India) Ltd., 14, Delhi Mathura Rd., P.O. Amathagar, Faridabad 121001.

Western Electric & Scientific Works, Nicholson Rd., Ambala Cantt. 133001.

Karnataka

Bharat Electronics Ltd., P.O. Jalahalli, Bangalore 560013.

Hind Vacuum Co., F-92, Ind Estate, Rajaji Nagar, Bangalore 560010.

Kerala

Anand Water Meter Manufg. Co., P.B. 1077, XXIII/376, M. Gandhi Rd., Ernakulam 682001.

Madhya Pradesh

Jash Engg. Industries, Ind. Estate, Polo Ground, Indore 452003.

Scientific & Industrial Instrument Co., B-14, Ind. Estate, Indore 452003.

Maharashtra

Adapt Laboratories, Karve Rd., Pune 411004.

Afco Ltd., Ind. Est., Ferguson Rd., Bombay 400013.

Advance Scientific Co., Diamond Jubilee Comp., 285, Takurdwar Rd., Bombay 400002.

Alliance Scientific & Chemical Co., 325, S.V.P. Rd., Bombay 400004.

Allied Electronics Corpn., 94, Kansara Chawl, Kalbadevi Rd., Bombay 400002.

Allied Instruments & Chemicals, P.B. 2643, Kalbadevi Rd., Bombay 400002.

Allied Instruments Pvt. Ltd., 30-B, Govt. Ind. Estate, Kandivli, Bombay 400067.

Ama Pvt. Ltd., Canada Bldg., Dr. D. Naoroji Rd., Bombay 400001.

Ampoules & Vials Manufs. Co., Kurla-Vihar Rd., Chandivli, Bombay 400072.

Andhra Scientific Co. Ltd., Janmabhoomi Chambers, Fort St., Ballard Estate, Bombay 400038.

Apurva Surgical Industries, 42, Dr. Anandrao Nair Rd., Lamington Rd., Bombay 400008.

Asha Scientific Co., 503, J. Shanker Shet Rd., Bombay 400002.

Asian Electronics Ltd., Handloom House, 224, Dr. D. Naoroji Rd., Bombay 400001.

Asian Surgical Co., Alkarim Manzil, 15, Palton Rd., Bombay 400001.

Associated Dental Medical Supply Co., Yusuf Bldg., V. Nariman Rd., Bombay 400001.

Associated Instrument Manufrs. (I) Pvt. Ltd., India House, Fort St., P.B. 119, Bombay 400001.

Automatic Electric Pvt. Ltd., Rectifier House, Naigaum Cross Rd., P.B. 7103, Wadala, Bombay 400031.

Bajaj Electricals Ltd., 45/47, V. Nariman Rd., Bombay 400001.

Bajsons, 40, Chakala Rd., Bombay 400069.

Batliboi & Co. Pvt. Ltd., Forbes St., Bombay 400001.

Bengal Surgical, Khal Bhakhri, Savarkar Rd., Bombay 400028.

Bhatia Surgical, Khetwadi Main Rd., Bombay 400004.

Bombay Burma Trdg-Corpn. Ltd., 253-A-Z, Ind. Estate, Ferguson Rd., Bombay 400013.

Bombay Scientific Equipment Corpn., 41, Sion (West), Bombay 400022.

Bombay Scientific Glass Works, 13, Khetwadi Lane, Bombay 400004.

Bombay Surgical Co., Opp. H. N. Hospital, Bombay 400004.

Brisk Instumentation, 5, Bruce St., Bombay 400001.

British Drug House, Glaxo Lab., Worli, Bombay 400018.

Chemech Instruments, 12/35, Mukund Nivas, Station Rd., Sion, Bombay 400022.

Chadda Surgical Co., 20, Ishwar Bhuvan, Podar St., Malad East, Bombay 400064.

Chemical De Universe Pvt. Ltd., Bode Chawl, 3, Gandh Marg, Bombay 400002.

Cine X-Ray Mfg. Co., Malabar View, Chowpatty, Bombay 400007.

Deo Surgical & Scientific Co., 9, Dalal St., Fort, Bombay 400001.

Divyesh Scientific Co., Hindu Colony Rd., Dadar, Bombay 400014.

Dominion Radios, 9/15, New Queen's Rd., Bombay 400004.

Eastern Laboratory Implements, 79, Princess St., Bombay 400002.

Electronic Enterprises, 46, Karani Bldg., Charni Rd., Bombay 400004.

Electronics Ind. Aids, P.B. 3547, Bombay 400004.

Electronic Instrument Co., 44, C. Patel St., Fort, Bombay 400001.

Elico Pvt. Ltd., 230, 95, D. Phalke Rd., Dadar, Bombay 400014.

Fairdeal Surgical Corpn., 105, Bank of Baroda Bldg., Palton Rd., Bombay 400001.

Gannon Dunkerley & Co. Ltd., Chartered Bank Bldg., Bombay 400001.

Gensons Pvt. Ltd., Industry Manor, Near Bengal Chemicals, Off. Cadell Rd., Bombay 400028.

Garg Scientific Glass Ind., 26/28, Dr. M. B. Velkar St., 1st Kolbhat Cross Lane, Bombay 400002.

Gordhandas Desai Pvt. Ltd., Court Chambers, 35-A, New Marine Lines, Bombay 400020.

Greaves Cotton Co. Ltd., Forbes St., Bombay 400001.

Gyro Laboratories Pvt. Ltd., 8, Gazdar St., Thakurdwar, Bombay 400002.

Hakotronics Pvt. Ltd., Sussex Rd., Bombay 400027.

Hardcastle Waud & Co. Ltd., Alice Bldg., Dr. D. Naoroji Rd., Bombay 400001.

Heatex Products Pvt. Ltd., 11, Bank St., Fort, Bombay 400001.

Hinditron Services Pvt. Ltd., 69/A, Napean Sea Rd., Bombay 400006.

Honesty Scientific Corpn., 43, Princess St., Bombay 400004.

Hospital Equipment Co., 98, Opp. Marine Line Station, Bombay 400002.

Imperial Surgical & Chemical Corpn., 27/29, Kolbhat Lane, Bombay 400002.

Imperial Surgical Co. Pvt. Ltd., 4, India House, Fort St., Bombay 400001.

Indian Electronics, Asha Studio, Chembur, Bombay 400071.

Indo-Burma Petroleum Co. Ltd., Sewree, Bombay 400015.

Indo-German Surgical Corpn., Purshottam Bldg., Opera House, Bombay 400004.

Industrial Controls & Appliances Pvt. Ltd., 47, Chakala Rd., Bombay 400069.

Industrial & Jewels Pvt. Ltd., 32, Nicol Rd., Ballard Estate, Bombay 400038.

Industrial Electronics, 306-B, Byculla Service Ind., Sussex Rd., Cross Lane, Byculla 400027.

Industrial Instruments & Controls, 308, Neelam, 108, Worli Sea-Face Rd., Worli, Bombay 400018.

Industrial Meters Pvt. Ltd., Advent, 12-A, Foreshore Rd., Bombay 400021.

Industrial Res. Instrument Co., D-2, Commerce Centre, 74, Tardeo Rd., Bombay 400034.

International Electronics, 61/63, Sutar Chawl, Bombay 400002.

Instrumentation Service, 19-C, Shalimar Ind. Estate, Matunga, Bombay 400019.

Jayant Medical & Surgical Co., 52/58, New Hanuman Lane, Bombay 400002.

Johnson & Johnson Ltd., 30, Forjett St., Bombay 400026.

J. N. Marshall Pvt. Ltd., Opp. 106th Mile Stone, Bombay-Pune Rd., P.O. Pimpri, Pune 411018.

Kalekar Surgical Ind., 305, Princess St., Bombay 400002.

Kalpana Scientific Co., Govind Bldg., Princess St., Bombay 400002.

Khandelwal Chemo-Lab. Equipments, I.A., Tak Wadi, Kalbadevi Rd., Bombay 400002.

Khandelwal Herrmann Electronics Pvt. Ltd., Bhandup Village Rd., Bombay 400078.

Krishna Instruments & Appliances Co., 230, Arun Chambers, Tardeo Rd., Bombay 400034.

Lab Instruments, 87, C.P. Tank, Bombay 400004.

Labequip Corpn., 15, Gul Bahar, Barrack Rd., Behind Metro Cinema, Bombay 400020.

Laboratory Chemical Co., Princess St., Bombay 400002.

Laboratory Glass & Equipments Co., Block 5, Plot 21, Nadiawadi Colony, S.V. Rd., Malad, Bombay 400064.

Larsen & Toubro Ltd., I. C. House, Dougall Rd., Ballard Estate, Bombay 400038.

Lawrence & Mayo (I) Pvt. Ltd., 274, Dr. D. Naoroji Rd., Bombay 400001.

Laxmi Chemical Ind., 32, Princess St., Bombay 400002.

Lektrolab Equipment Co., 8, Shivaji Park, Bombay 400028.

Liberty Scientific Instruments Co., Mulji Jetha Bldg., Bombay 400002.

Mahlo-Star Electronic Equipment Pvt. Ltd., Shri Lakshmi Woollen Mills Estate, Dr. E. Moses Rd., Mahalaxmi, Bombay 400011.

Manilal Maganlal & Co., 382/7, Girgaum Rd., Bombay 400002.

Marshall Sons & Co. India Ltd., Off 79, Dr. A. Besant Rd., Bombay 400018.

Martin & Harris Pvt. Ltd., Savoy Chambers, Wallace St., Bombay 400001.

Medical Equipment Co., Agra Rd., Bhandup, Bombay 400078.

Metzer (I) Optical Instrument Co., 110-113, Himalaya House, Palton Rd., Bombay 400001.

Modern Scientific Instruments Co., 48 A/B, Sadashiv Cross Lane, Bombay 400002.

National Radio & Electronics Co. Ltd., 8, Unity House, Mama Parmanand Marg, Bombay 400004.

National Scientific Instruments Co., 19, Bank St., Bombay 400001.

National Surgical Instrument Co., Haines Rd., Worli, Bombay 400018.

Neo Pharma Instruments Corpn., Kasturi Bldg., J. Tata Rd., Bombay 400020.

New Pioneer Medical Supply Co., Anand Bhavan, Princess St., Bombay 400002.

Orient Scientific & Chemical Co., 20, Kitchen Garden Lane, Bombay 400002.

Pharma Lab. Ind., Agra Rd., Vikhroli, Bombay 400083.

Philips India Ltd., Shivasagar Estate, Block A, Dr. A. Besant Rd., Worli, Bombay 400018.

Pioneer Equipment Co., Pvt. Ltd., 139, N. Master Rd., Bombay 400001.

Polar Ind. Corpn., Devkaran Mansion No. 3, 13, Princess St., Bombay 400002.

Polydor of India Ltd., A. Chakravarti Rd., Ashok Nagar, Kandivli East, Bombay 400067.

Polytronic Corpn., 7, Sainath Ind. Estate, Babasaheb Kotkar Rd., Goregaon, Bombay 400062.

Prasad Scientific Co., Tardeo Air Conditioned Market, Bombay 400034.

Precision Electronic Ind., 103, Jay Gopal Ind. Estate, B. Shankar Cross Rd., Dadar, Bombay 400028.

Precision Tools & Instruments Co., 60, Forbes St., Fort, Bombay 400001.

Reliable Surgical Corpn., 75, Love Lane, Mazagaon, Bombay 400010.

Republic Scientific Co., 13/21, 3rd Panjrapole Lane, Bombay 400004.

Ruttonsha Simpson Pvt. Ltd., International House, Bombay-Agra Rd., Vikhroli, Bombay 400083.

Sachin & Co., 25, Bank St., Bombay 400001.

Saples Scales Manufg., Co. Pvt. Ltd., Prospect House, Off Gunbow St., Bombay 400001.

Sarabhai Merck Ltd., A-Z Ind. Estate, Ferguson Rd., Bombay 400013.

Saraya Scientific Co., Moor Bldg., Kalbadevi Rd., Bombay 400002.

Sarvodaya Surgicals, 85/87, Old Hanuman Lane, Bombay 400002.

Scientific Apparatus Manufg. Co., 225-C, Mangaldas Bldg., Mangaldas Rd., Bombay 400002.

Scientific Equipment Manufg. Co., 17-A, Jakaria Ind. Estate, Bombay 400011.

Scientific Instrument Co. Ltd., 240, Dr. D. Naoroji Rd., Bombay 400001.

Scientific Requisites Supplies, 37, Western India House, Sir P. Mehta Rd., Fort, Bombay 400001.

Shanti Scientific Co., Mazagaon, Bombay 400010.

South India Surgical Co., Loharchawl, Bombay 400002.

Specialised Instruments Manufg. Co., 61, Dr. Rau Rd., Bombay 400012.

Standard Surgical & Dressing Works, 28, B. Genu Rd., Bombay 400002.

Star Electronics Pvt. Ltd., Dhanraj Mahal, Apollo Bunder Rd., Bombay 400001.

Techno Electro Pvt. Ltd., Alice Bldg., Dr. D. Naoroji Rd., Bombay 400001.

Technical Instrument Supply Co., Jay Mahal Estate, 20/48, Lohar Chawl, Bombay 400008.

Tempo Ind. Corpn., 1, Lamington Chambers, 394, Lamington Rd., Bombay 400004.

Therelek Furnace Pvt. Ltd., 23, Wagle Ind. Estate, Thana.

Top Syringes Manufg. Co., Prospect Chamber Annexe, 317-21, Dr. D. Naoroji Rd., Fort, Bombay 400001.

Toshniwal Bros. Pvt. Ltd., 198, J. Tata Rd., Bombay 400020.

Toshniwal Instruments, Mohatta Bhavan, Off Haines Rd., Worli, Bombay 400018.

Twandsven Electric & Engg. Service, Colaba Causeway, Bombay 400005.

Uday Scientific Apparatus Damodar Bldg., 105, Princess St., Bombay 400002.

Ultra Medical & Scientific Apparatus Works, Tardeo Airconditioned Market, Bombay-400034.

Union Drug & Pharmaceutical Co., Peerbhai Bldg., Princess St., Bombay 400002.

Venus Scientific & Surgical Co., 46, Old Hanuman Lane, Bombay 400002.

Vibronics Pvt. Ltd., 4, Kurla Ind. Estate, Agra Rd., Ghatkopar, Bombay 400077.

Vora B. K. & Co., 76, Old Hanuman Lane, Bombay 400002.

Warden Surgical Co. (Pvt.) Ltd., Mapla Mahal, Thakurdwar, Bombay 400004.

Western India Surgical Co., 19/21, Ladwadi, Old Hanuman Lane, Bombay 400002.

Wooden Novelty Mfg. Co., Rajda Nagar, Borivli (East), Bombay 400092.

X-ray & Electro Medicals (I) Co., Malabar View, Chowpatty Sea Face, Bombay 400007.

Yeshwant Scientific Apparatus, D/46, Gaothar Rd., Gajana Nivas, Chembur, Bombay 400071.

Zaran Trading Agency, P.B. 6657, Bandra 400050.

Zenith Surgical Co., 206, 3C-Mangaldas Bldg., Bombay 400002.

Punjab

Hans Raj Nayyar (Surgical) Co. Pvt. Ltd., Hall Bazar, P.B. 38, Amritsar 143001.

Rajasthan

Photo Electric Instruments, Diwan House, Mehta Market, Jodhpur 342001.

Tamil Nadu

Andhra Scientific Co. Ltd., Mount Rd., Madras 600002.

English Electric Co. of India Ltd., Pallavaram, Madras 600043.

Scientific Instruments Co. Ltd., 30, Mount Rd., Madras 600002.

Scientific Products, C-42, Ind. Estate, Guindy, Madras 600032.

Seshasayee Bros. Pvt. Ltd., 9-A, Nungambakkam High Rd., Madras 600034.

Toshniwal Bros. Pvt. Ltd., Round Tana, Mount Rd., Madras 600002.

Universal Biochemical Enzymo House, Sadhya Nagar Madurai 625003.

Uttar Pradesh

Agarwal Scientific Glass Industries, 46, Ind. Estate, Nanhai, Agra 282006.

Central Scientific Instrument Corpn., 5-A, M. Gandhi Rd., Agra 282001.

Gyam Scientific Traders, 28, Gautam Budha Marg, Lucknow 282001.

Newton Scientific Products Co., Aish Bagh Rd., P.B. 193, Lucknow 282001.

Ramkumar & Bros., P.B. 61, Etawah 206001.

Scientific Corporation, 10, Bhopal House, Lalbagh, Lucknow 282001.

Scientific Instruments Co. Ltd., 6, T.B. Sapru Rd., Allahabad 211001.

West Bengal

Geologists Syndicate Pvt. Ltd., 137, B.R. Basu Rd., Calcutta 700001.

Lawrence & Mayo (I) Pvt. Ltd., 11, Govt. Place Rd., Calcutta 700001.

National Instruments & Ophthalmic Glass Ltd., 1/1, R.S.C. Mullick Rd., Calcutta 700032.

Overseas Trade Corpn., 133, Canning St., Calcutta 700001.

Villait Electronic Ind. Pvt. Ltd., 33/34, Sankaritolla St., Calcutta 700014.

Scientific Instruments Co. Ltd., 11, Esplanade East, Calcutta 700001.

Toshniwal Bros. Pvt. Ltd., 85-A, S. Bose Rd., Calcutta 700026.

INSULATING MATERIALS

Artec Products, 2/2 Dwarkanath Bhavan, Katrak Rd., Wadala, Bombay 400031.

Ashwin Kumar & Co., Shreeji Bhavan, 49, Mangaldas Rd., Bombay 400002.

Dr. Beck & Co. (India) Ltd., Pimpri, Pune 411018.

Fibro Products, 33A, Apurva Industrial Estate, Makwana Rd., Andheri (East), Bombay 400059.

Industrial Mineral & Mill Stores, Mercantile Bldg., Lall Bazar, Calcutta 700001.

Mascot Insulations, 99/5/8A, Ballygunge Place, Calcutta 700019.

Montex Industries, 2/18, Bombay Mutual Annexe, Rustom Sidhwa Marg, Bombay 400001.

Mineral Wool Manufg. Co., Jugsalai, Jamshedpur 831001.

Plasticables Pvt. Ltd., Lentin Chambers, 36, Dalal St., Bombay 400001.

Vitro Ceramics, 157, Vithal Udyog Nagar, Vallabh Vidyanagar, Gujarat.

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Dattatraya Ind. Pvt. Ltd., 691A, Pune Satara Rd., Pune 411009.

Premier Irrigation Equipment Pvt. Ltd., 17/1C, Alipore Rd., Calcutta 700027.

JUTE GOODS

Alliance Mills (Lessees) Pvt. Ltd., 18, N. Subash Rd., Calcutta 700001.

Birla Jute Manufg. Co. Ltd., Birlapur, 24 Parganas, W. Bengal.

Gungadhar Bannerjee & Co. Pvt. Ltd., Bakulia House, Kidderpore, Calcutta 700023.

General Industrial Society Ltd., 8, India Exchange Place, Calcutta 700001.

Julon Fabrics Ltd., Nirmal, 2, Panwadi Rd., Bhavnagar 364001.

JUTE MILL MACHINERY

Machine & Mill Stores Corpn. Pvt. Ltd., 76/19 Benares Rd., Howrah 700001.

Nipha Machinery Manufrs. Pvt. Ltd., 25 N. Subash Rd., Calcutta 700001.

Oriental Electric & Engg. Co., National Tobacco Bldg., 1, Old Court House Corner, Calcutta 700001.

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Nat Steel Equipment Pvt. Ltd., G. D. Ambekar Marg, Dadar, Bombay 400014.

Natural Gas Co. Pvt. Ltd., 53/57, Laxmi Bldg., Sir P. Mehta Rd., Bombay 400001.

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LABORATORY EQUIPMENT—Survey, Analytical, Meteorological and Educational labs.

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Andhra Scientific Co. Ltd., Cantt. Rd., Machilipatnam 521001.

Elico Pvt. Ltd., B-17, Ind. Estate, Sanatnagar, Hyderabad 500018.

Delhi

Apothecaries' Sundries Manufg. Co., 19, Amrit Kaur Market, New Delhi 110055.

Ashoka Scientific Ind., 42, New Lajpat Rd., Market, Delhi 110006.

Asian Scientific Instruments Co., 12, Chadha Basti Harphool Singh, Sadar Thana, Delhi 110006.

Plasticables Pvt. Ltd., Lentin Chambers, 36, Dalal St., Bombay 400001.

Vitro Ceramics, 157, Vithal Udyog Nagar, Vallabh Vidyanagar, Gujarat.

Batra & Co., A-136, Defence Colony, New Delhi 110024.

Chhabra Scientific Ind., 1928, Malka Ganj Rd., Delhi 110007.

Continental Sales Syndicate, T-715, D.C.M. Rd., Delhi 110006.

Delhi Scientific Works, Ajmeri Gate, Delhi 110006.

Emkay Scientific Corpn., 36 U. B. Jawahar Nagar, Delhi 110007.

K.L.K. Scientific Ind., 313, Dhir Pur, Nirankari Colony, Delhi 110009.

Neulite Engg. Corpn, 63, Hari Nagar Ashram, Mathura Rd., New Delhi 110014.

Optical Instrumentation (India), 21, Beadon Pura, Karol Bagh, New Delhi 110005.

P.S.R. Chemical Ind., Mori Gate, Delhi 110006.

Precision Scientific Equipment Corpn., 16, Patel Rd., S. Patel Nagar, New Delhi 110008.

Rashtriya Optical Traders, 4, Darya Ganj, Delhi 110006.

Towa Optics (India) Pvt. Ltd., 4, Darya Ganj, Delhi 110006.

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Hindustan Ophthalmic Lens Manufrs., opp. Kothi Bus Stand, Vadodara 390001.

Mehta & Co., 301/A, Behind Town Hall, Ellis Bridge, Ahmedabad 380006.

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Sunil Engg. Works, Sindwaimata Rd., Pratapnagar, Vadodara 390004.

Surgical Equipment Manufg. Co., 1 B. Kalpana Bhoomi Estate, Dhudeshwar Rd., Ahmedabad 380001.

Karnataka

Mysore Tools Ltd., Coffee Board Bldg., Bangalore 560001.

Maharashtra

Associated Instruments Manufrs. (India) Pvt. Ltd., India House, W. Hirachand Marg, Bombay 400038.

Blue Steel Engrs., Pvt. Ltd., 144, A-Z Ind. Estate, Fergusson Rd., Bombay 400013.

Borosil Glass Works Ltd., 44, Khanna Construction House, M. A. Gaffar Rd., Worli, Bombay 400018.

Cintex Ind. Corpn., 237, Jaigopal Ind. Estate, Bhavanishanker Cross Rd., Dadar, Bombay 400028.

Delhi Scientific Works, 12, J. B. Nagar, Andheri, Bombay 400059.

Dubash Freres & Co., Victoria Bldg., Parsee Bazar St., Bombay 400001.

Eltron India, B-18, Giriraj Ind. Estate, Mahakali Rd., Chakala, Bombay 400069.

Kumar & Co., 31, Old Post Office Lane, Kalbadevi Rd., Bombay 400002.

Lab-Hosp. Corpn., Katrak Compound, Gaiwadi, Girgaum, Bombay 400004.

Lab Instruments, 87, V. Patel Rd., Bombay 400004.

Labequip Corpn., 15, Gulbahar, Barrack Rd., Bombay 400002.

Lawrence & Mayo (India) Pvt. Ltd., 274, Dr. D. Naoroji Rd., Bombay 400001.

M.S.C.O. Pvt. Ltd., 301, Dr. E. Moses Rd., Worli Naka, Bombay 400018.

M. Shah & Co., Kanji Mansion, 311, S. Patel Rd., Bombay 400004.

Manilal Maganlal & Co., 382/7, Girgaum Rd., Bombay 400002.

Modern Scientific Ind., 58, C. Govt. Ind. Estate, Kandivli West, Bombay 400067.

Polar Ind. Corpn., Devkaran Mansions, 43, Princess St., Bombay 400002.

Raj-Der-Kar & Co., Sadhana Rayon House, Dr. D. Naoroji Rd., Bombay 400001.

Dr. Rao's Lab., 27, Cama Ind. Estate, Walbhat Rd., Bombay 400063.

Ravindra Heraeus Pvt. Ltd., 133, Dr. A. Besant Rd., Bombay 400018.

Rolla Ind. Corpn., Sainath Ind. Estate, Shed "E", Off Aarey Rd., Goregaon East, Bombay 400063.

Scientific & Technical Home, 443, Lamington Rd., Bombay 400004.

Silica Ware Pvt. Ltd., 54, C. Chotani Estate, Proctor Rd., Bombay 400007.

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Tempo Semi Conductors, Divn. of Primco Pvt. Ltd., 18, Subash Rd., Vile Parle East, Bombay 400057.

Thermolab Equipment Co., B-9, MIDC Udyog Bhavan, Mahakali Caves Rd., Andheri East, Bombay 400093.

Unique Trdg. Corpn., 221, S. Devji St., Bombay 400003.

Universal Scientific Glass Apparatus Manufg. Ind., S. Vivekanand Rd., Ram Baug, Malad West, Bombay 400064.

Tamil Nadu

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Engineering Equipment Enterprise, Satyamangalam Rd., P.O. Ganapathy, Coimbatore 611006.

Instruments & Chemicals Pvt. Ltd., 334, Thambu Chetty St., Madras 600001.

West Bengal

Arora Mathey Ltd., 166, N. Subash Bose Rd., Tollygunj, Calcutta 700040.

East End Engineers, 52, B. Bose Ave., Calcutta 700004.

Eastern Ind. Trdg. Corpn., 92 B. Chittaranjan Ave., Calcutta 700012.

Eastern Scientific Co., 4, College St., Calcutta 700012.

Geologists' Syndicate Pvt. Ltd., 137, B. R. Basu Rd., Calcutta 700001.

India Instruments Manufg. Co., 208, Bow Bazar St., Calcutta 700012.

Killearn & Co., 106/C, Raja Dinendra St., Calcutta 700004.

Overseas Trade Corpn., 133, Canning St., Calcutta 700001.

Premier Scientific Glass Co., 26/2A, P. K. Tagore St., Calcutta 700006.

Scientific Equipment Supplying Corpn., 59/A, Kali Temple Rd., Calcutta 700026.

Scientific Glass Works, 35, G. Chatterji Rd., Calcutta 700002.

Scientific Industries, 51/1, Raja Dinendra St., Calcutta 700009.

Scientific Repairs & Trdg. Co. Pvt. Ltd., 13, Canal St., Calcutta 700014.

Scientific Supplies, 55, Canning St., Calcutta 700001.

Scientific Syndicate, 172, B. P. Ganguly St., Calcutta 700012.

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Calcutta Label Works, 35, J. Bajaj St., Calcutta 700007.

Sharat Industries, 171, Dr. D. Naoroji Rd., Bombay 400001.

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Bengal Engg. Co. Pvt. Ltd., 12, Dalhousie Sq. East, Calcutta 700001.

Caprihans (I) Pvt. Ltd., Block D, Shiv Sagar Estate, Dr. A. Besant Rd., Bombay 400018.

Guardian Plasticote Ltd., 12, Ho Chi Minh Sarani, Calcutta 700016.

Indecor Laminates Pvt. Ltd., B-45, Ind. Estate, Sanatnagar, Hyderabad 500018.

Shiv Laminating & Coating Pvt. Ltd., Jolly Bhavan No. 2, N. Marine Lines, Bombay 400020.

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(See Electrical Lamps ond Accessories in this list.)

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  Hyderabad 500 018. Phone : 29571.
- **Bakelite Hylam Limited,**
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  New Delhi 110 001. Phones : 43068/45309.
- **Bakelite Hylam Limited,**
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  Calcutta 700 001. Phones : 239921/2.
- **Bakelite Hylam Limited,**
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Haryana

Bata Shoe Co. Ltd., Faridabad 121001.

Maharashtra

Art Home, 4, Jerbai Baug, Byculla, Bombay 400027.

Artistic Leather Goods & Accessories, National House, Tulloch Rd., Bombay 400005.

Bharat Leather Works, 183, A. Rehman St., Bombay 400003.

Bombay Leather Goods Depot, 14, Chhipi Chawl, Bombay 400002.

Bright Leather Ind., 338 A, Rehman St., Bombay 400003.

Gold Filled Leather Works, 157-161, Princess St., Bombay 400002.

Jayant Ind. Home, 99, Bhajipala Lane, Bombay 400003.

Kamal Leather Works, Md. Ali Bldg., M. Ali Rd., Bhendi Bazar, Bombay 400003.

Leather Art Ind., Swadeshi Market, Bombay 400002.

Maharashtra Leather Works, Opp. Station Rd., Dadar, Bombay 400028.

Noble Leather Works, 82-86, A. Rehman St., Bombay 400003.

Pioneer Leather Works, Sitaram Bldg., Crawford Market, Bombay 400001.

Premier Leather Kraft, 37, Hamam St., Fort, Bombay 400001.

Sharda Manufrs., 32, 3rd Bhoiwada Lane, Bombay 400002.

Shripat Sitaram & Co., P.O. Sion, Bombay 400022.

Super Leather Works, 356, A. Rehman St., Bombay 400003.

Thakker & Sons, Harbour View, Colaba Causeway, Bombay 400001.

Textile Leather Works Ltd., Crescent Chambers, Tamarind Lane, Bombay 400001.

Western India Tanneries Ltd., 2-A, Dharain Rd., Bombay 400017.

Orissa

Govt. Tannery, P.O. Bandhrak, Phulbani Dist. 756100.

Punjab

Kapurthala Leather Products Pvt. Ltd., Kapurthala 144601.

Tamil Nadu

Chromotan (Coimbatore) Ltd., Avanashi Rd., Coimbatore 641001.

Dindigul Co-op. Leather Works Ind., Society Ltd., Dindigul 624001.

Gordon Woodroffe Leather Manufg. Co. Ltd., 1/21, North Beach Rd., Madras 600001.

Jayam Trading Corpn., 26, K. Sadayappan St., Madras 600003.

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Uttar Pradesh

Agra Leather Board Pvt. Ltd., Agra 282001.

Pioneer Tanneries & Glue Works, Jajman, Kanpur 208001.

Prime Products Ltd., P. Box No. 80, Kanpur 208001.

Tannery & Footwear Corpn. of India, 13/400, Civil Lines, Kanpur 208001.

Wabbing & Belting Factory Ltd., G. T. Rd., Ghaziabad 201001.

West Bengal

A. Abdul Shakoor & Co., 8, Sydenham Rd., Calcutta 700001.

Birkmyre Bros. Ltd., 67, Stephen House, Dalhousie Sq. East, Calcutta 700001.

Calcutta Leather & Allied Products Marketing Co-op. Society Ltd., 13-S, Tangra Rd., Calcutta 700014.

Chinese Leather Syndicate Ltd., 56, South Tangra Rd., Calcutta 700039.

I.E.C. Ltd., 47, South Tangra Rd., Calcutta 700039.

International Tanning Industries, 4, Ghulam Jilani Khan Rd., Calcutta 700039.

J. H. Fenner & Co. (India) Pvt. Ltd., Mercantile Bldg., Lalbazar, Calcutta 700001.

Morrison & Cottle Pvt. Ltd., 30-G, J. Nehru Rd., Calcutta 700016.

National Tannery Co. Ltd., Mercantile Bldg., Lall Bazar St., Calcutta 700001.

P. Basak & Co., 9, Chidam Modi Lane, Calcutta 700006.

Tekno Rubber & Plastic Works, 14, Chandni Chowk St., Calcutta 700013.

LIFTS

(See under Electrical Lifts in this list.)

LOCKS & FITTINGS

De's Lock Ind., 31, Haripada Dutta Lane, Calcutta 700033.

MACHINE TOOLS

Machine & Tools Corpn. (India), Lentin Chambers, Dalal St., Bombay 400001.

Perfect Machine Tools Co. Pvt. Ltd., Bell Bldg., Sir P. Mehta Rd., Bombay 400001.

(See 'Tools — Machine' in this list)

MACHINERY

Alfred Herbert (India) Ltd., Kaiser-i-Hind Bldg., Sprott Rd., Ballard Estate, Bombay 400038.

Associated Engg. Co., Geethamala Bldg., Central Ave. Rd., Chembur, Bombay 400071.

H. S. Sobha Singh & Sons, Nagin Mahal, 82, Veer Nariman Rd., Bombay 400020.

Pioneer Engg. Works, Naroda Rd., Ahmedabad 380002.

Teknoworks (India), L. Bhadur Shastri Marg, Bhandup, Bombay 400078.

MAGNETS

Auroville Electronics & Allied Ltd., P.O. Box 20, Pondicherry 605001.

Bengal Engg. Co. Pvt. Ltd., 12, Dalhousie Sq. East, Calcutta 700001.

Ferri-Mag India, P.O. Box 27, Chinchwad, Pune 411019.

Permanent Magnets Ltd., 20, Old Custom House Rd., Bombay 400001.

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- 44-E Block, Connaught Place, New Delhi 110 001. Phone : 48688. Grams : "PERMATOOL". Telex : 031-3114.
- No. 1, Smith Road, Mount Road, Madras 600 002. Phone : 87237. Grams: "PERMATOOL". Telex : 041-7252.
- Aruna Mansion, J. C. Road, Bangalore 560 002. Phone : 72752. Grams : "SUKAN". Telex : 043424.
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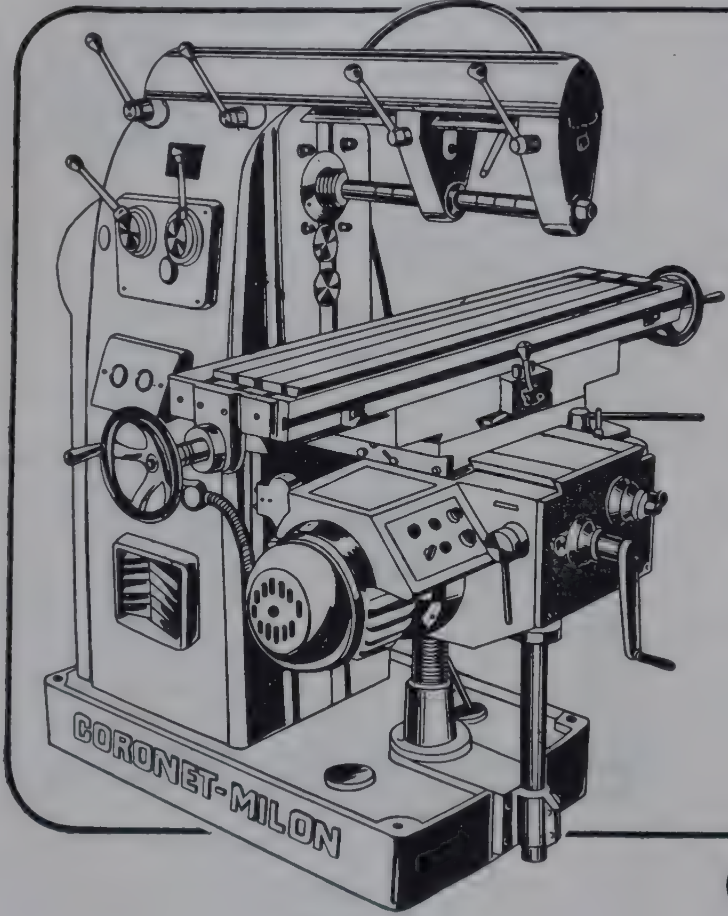

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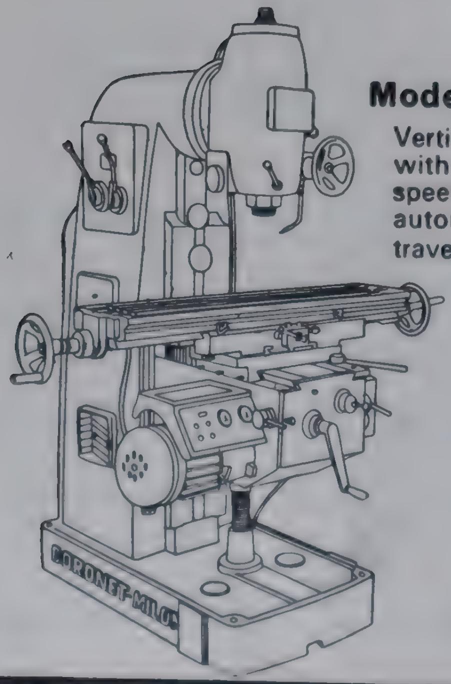

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(See under 'Conveyors' in this list)

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Krishi Engines Pvt. Ltd., Sanatnagar, Hyderabad 500018.

Bihar

Tata Engg. & Locomotive Co., Ltd., Jamshedpur 831001.

Gujarat

Gujarat Ind. Trucks Ltd., Surat Navsari Rd., P.O. Baroda Rayon, Surat.

Maharashtra

Brady Engg. Co., Ltd., Brady House, V. Nariman Rd., Bombay 400001.

Godrej & Boyce Manufg. Co. Pvt. Ltd., Godrej Bhavan, Home St., Bombay 400001.

Gujarat Ind. Trucks Ltd., India House, Opp. G.P.O., Bombay 400001.

Hoist-O-Mech Ltd., Industry Manor, Opp. Bengal Chemicals, Bombay 400025.

Josts Engg. Co. Ltd., Great Social Bldg., Sir P. Mehta Rd., Bombay 400001.

Larsen & Toubro Ltd., L & T House, Ballard Estate, Bombay 400038.

Standard Batteries Ltd., Vakola, Bombay 400055.

West Bengal

Carter Pooler & Co. Ltd., 10, Clive Row, Calcutta 700001.

Electric Construction & Equipment Co. Ltd., P.O. Parbangla, Batanagar, 24-Parganas Dist.

Kilburn & Co., Ltd., 2, Fairlie Place, Calcutta 700001.

PULLEYS, CRANES, HOISTS, ETC.

Delhi

Amta Ind. (India), 17, DLF Ind. Area, New Delhi 110015.

Atlas Pulley Manufg. Co., 5392, Shradhanand Marg, Delhi 110006.

B. K. Khanna & Co. Pvt. Ltd., 14-F, Central Circle, New Delhi 110001.

Benlaks (India) House, Shradhanand Marg, Delhi 110006.

Bhai & Bhai Associates, 4-23-B, Asafali Rd., New Delhi 110001.

Dass Hitachi Ltd., 21-A, Janpath, New Delhi 110001.

Indudyog Co. Pvt. Ltd., 40, Ind. Estate, Okhla, New Delhi 110020.

Industrial Cranes & Fabricators Pvt. Ltd., 22-F, Gandhi Rd., New Delhi 110001.

K. G. Khosla & Co. Pvt. Ltd., 1, D. Gupta Rd., New Delhi 110001.

Pulling & Lifting Machines Pvt. Ltd., 12, Sriram Rd., Civil Lines, Delhi 110006.

Shakti Pulley Manufg. Co., 5391, Light Bldg., Shradhanand Marg, Delhi 110006.

Gujarat

Elicon Engg. Co. Ltd., Vallabh Vidya Nagar.

Karnataka

Mantons (Bangalore) Pvt. Ltd., Site No. 1, Koramangala Ind. Layout, Hosur Rd., Bangalore 560034.

Steel Construction Co. Pvt. Ltd., 41, Hardinge Rd., Bangalore 560001.

Kerala

Kerala Electrical and Allied Engg. Co. Pvt. Ltd., Kundara, Quilon 691001.

Madhya Pradesh

Jain & Rai, P.O. Bhilai Steel Plant, Bhilai.

Maharashtra

Ashton Green & Co., 118, Sir Vithaldas Chambers, 16, Apollo St., Bombay 400001.

B. R. Hermann & Mohatta (I.) Pvt. Ltd., Mustafa Bldg., Sir P. Mehta Rd., Bombay 400001.

BUC Mechanical Equipments Pvt. Ltd., 119 ABC, Govt. Ind. Estate, Kandivli West, Bombay 400067.

Dynacraft Machine Co. Pvt. Ltd., C. D. Barfiwalla Marg, Bombay 400058.

Eastern Machinery & Trdg. Co., Wilson Rd., B Estate Bombay 400038.

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K. T. Steel Ind. Pvt. Ltd., 21, Bharuch St., Bombay 400009.
Khandelwal Udyog Ltd., Kurla-Kirol Rd., Bombay 400086.
Larsen & Toubro Ltd., L & T House, Ballard Estate, Bombay 400038.
New Standard Engg. Co. Ltd., N.S.E. Estate, Goregaon (East), Bombay 400063.
Nigo's Corpn, Patel Comp., 48B, Lamington Rd., Near Nair Hospital, Bombay 400008.
R. N. Suresh Tools Corpn., 53, Commercial Chambers, Masjid Bunder Rd., Bombay 400003.
Richardson & Cruddas Ltd., Byculla Iron Works, Bombay 400008.
Roberts, McLean & Co Ltd., Ilaco House, Sir P. Mehta Rd., Bombay 400001.
Shah Patel & Co., 111, Nagdevi St., Bombay 400003.
Srikesh Engg., 11, Noble Chambers, Gogha St., Bombay 400001.
Standard Materials Agencies, 45/46, Podar Chambers, Parsee Bazar St., Bombay 400001.
Tak Machinery Ltd., Janmabhoomi Bhavan, Ghoga St., Bombay 400001.
Western Mechanical Ind. Pvt. Ltd., Opp. Bengal Chemicals, Bombay 400025.
Westerwork Engrs. Pvt. Ltd., 15, Bhandup Village Rd., Bombay 400078.

Tamil Nadu

Chitram & Co. Pvt. Ltd., Main Rd., Royapuram, Madras 600013.
Southern Structurals Ltd., 14, Boag Rd., Madras 600001.

Uttar Pradesh

Pulling and Lifting Machines Pvt. Ltd., B-10, Ind. Area, No. 3, Meerut Rd., Ghaziabad 201001.

West Bengal

A. Stock & Co. Ltd., 8, Goragacha Rd., Calcutta 700007.
Arthur Bagree & Co. (I), 40, Strand Rd., Calcutta 700001.
Asian Marketing Co. Ltd., 38 N. Subash Rd., Calcutta 700001.
Braithwaite & Co. (I) Ltd., Angus, Hooghly Distt.
Brittania Engg. Co. Ltd., 3, N. Subash Rd., Calcutta 700001.
Burn & Co., Ltd., 12, Mission Row, Calcutta 700001.
Coles Cranes of India Ltd., 517, B.T. Rd., 24-Parganas Dist.
Construction Machinery Corpn., 32, G. Chandra Ave, Calcutta 700001.
Escal India Pvt. Ltd., P-34, C.I.T. Rd., Calcutta 700014.
Garden Reach Workshops Ltd., 43/46, Garden Reach Rd., Calcutta 700024.
Hindustan Motors Ltd., Uttarpara, Hooghly Dist.
J.K. Steel Ind. Ltd., 2, Mangoe Lane, Calcutta 700011.
Jessop & Co. Ltd., 63, N. Subash Rd., Calcutta 700001.
Kumardhubi Engg. Works, Chartered Bank Bldg., Calcutta 700001.
Lynx Machinery Ltd., 10, Clive Row, Calcutta 700001.
New Marine Mart, 4, Raja Woodmunt St., Calcutta 700001.
Usha Telehoist Ltd., 14, Princep St., Calcutta 700013.

TRAILERS & TROLLIES

Andhra Pradesh

Hyderabad Allwyn Metal Works Ltd., Sanatnagar, Hyderabad 500018.

Assam

Steel Works Ltd., Commercial Bldg., Tezpur, 784001.

Bihar

Linkers Pvt. Ltd., Jamal Rd., Patna 800001.

Delhi

Delhi Engg. Works Pvt. Ltd., G.T. Rd., Azadpur, Delhi 110033.
Ghaziabad Engg. Co. Pvt. Ltd., 42, Janpath, New Delhi 110001.
Indudyog Co. Pvt. Ltd., 40, Okhla Ind. Estate, New Delhi 110020.
New India Motors Pvt. Ltd., Scindia House, New Delhi 110001.

Karnataka

Metalitek Industries, A-68, Ind. Estate, Bangalore 560044.

Maharashtra

Esoofali Esmailji Karachiwala & Co., 43/45, Bhandari St., Mandvi, Bombay 400003.
Kanara Engg. Co. Pvt. Ltd., Mount Rd., Bombay 400010.
Mahindra & Mahindra Ltd., Gateway Bldg., Apollo Bunder, Bombay 400001.
Marian Engg. Co., 710, Horniman Circle, Bombay 400001.
Ruby Industries, 75, Dr. A. Besant Rd., Bombay 400018.

Tamil Nadu

Addison & Co. Ltd., 153, Mount Rd., Madras 600002.
Simpson & Co. Ltd., 202-Mount Rd., Madras 600002.
Sreevatsa Engg. & Trdg. Co., 3/79, Sembudoss St., Madras 600001.

Uttar Pradesh

Light Carts Pvt. Ltd., Cariappa St., Meerut 250001.

West Bengal

Alexander (Pvt.) Ltd., 26, Strand Rd., Calcutta 700001.
Amiya Corpn., 19, British Indian St., Calcutta 700001.
Associated Aesby Ind. Pvt. Ltd., 22, Strand Rd., Calcutta 700001.
Balmer Lawrie & Co. Pvt. Ltd., 21, N. Subash Rd., Calcutta 700001.
Bengal Hardware Co., 70, N. Subash Rd., Calcutta 700001.
C. Comens & Sons Ltd., 103/3, Diamond Harbour Rd., Calcutta 700001.
Chopra Motors, 139, Regent Park, Calcutta 700040.
International Trailers, 11, Bediadanga Rd., Calcutta 710039.
Mechanical Engg. Co. Pvt. Ltd., 50/1, Tagore Rd., Calcutta 700015.

MEDICAL EQUIPMENT

BABY PRODUCTS

Delhi

Helix Latex Ind., B-28, G. T. Karnal Rd., Ind. Area, Delhi 110033.

Maharashtra

Bombay Latex & Dispersions Pvt. Ltd., 83-C, A. Besant Rd., Worli, Bombay 400018.

Johnson & Johnson Ltd., Spencer's Bldg., 30 Forjett St., Bombay 400036.

HOSPITAL EQUIPMENT

Delhi

Allied Surgical & Dressings, Bhagirath Palace, Chandni Chowk, Delhi 110006.

Apothecaries' Sundries Manufg. Co., P.O. Box 1, New Delhi 110001.

Eastern Trdg. Corpn., 849, Lajpatrai Market, Chandni Chowk, Delhi 110006.

Enkay India Rubber Co., 156-D, Kamla Nagar, Delhi 110007.

Helix Latex Ind., C-11-6, Model Town, Delhi 110009.

Ocean Surgical Co., 51/2, D. B. Gupta Rd., Karol Bagh, New Delhi 110005.

Phillips India Ltd., 68, Najafgarh Rd., New Delhi 110015.

Rita Rubber and Surgical Works, Bhagirath Palace, Delhi 110006.

Swastik Thermometer Co., 41B, Katra Maidan, Khari Baoli, New Delhi 110006.

Gujarat

Shah Medical and Surgical Co. Ltd., Ajwa Rd., Vadodara 390001.

Surgical Equipment Manufg Co., 1 B. Kalpana Bhoomi Estate, Opp. Rustom Mills, Dhudeshwar Rd., Ahmedabad 380001.

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Maharashtra

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Dial Rubber Works, Sonawala Cross Rd., Goregaon East, Bombay 400063.

Elpro Intn. I. Ltd., Chinchwad Gaon, Pune 411033.

Indian Oxygen Ltd., L. B. Shastri Marg, Ghatkopar West, Bombay 400086.

Industrial Electronics and Allied Products, 1423, New Shukrawar Peth, Pune 411002.

Iscomed Ind. Pvt. Ltd., Shastri Marg., Bombay 400080.

Johnson & Johnson Ltd., Spencer's Bldg., 30, Forjett St., Bombay 400036.

M. Shah & Co., Kanji Mansion, 311, S. Patel Rd., Bombay 400004.

Macphil & Co. Pvt. Ltd., B-3, Wagle Estate, Panchpakhadi, Thana 400604.

MSCO Pvt. Ltd., 301, Dr. E. Moses Rd., Worli Naka, Bombay 400018.

Nat Steel Equipment Pvt. Ltd., G. D. Ambekar Marg, Bombay 400014.

Sunshine Surgical Co. Pvt. Ltd., 24, Baroda St., Bombay 400009.

Punjab

Adarsh Rubber Ind., 1182, Azadnagar, Amritsar 143001.

Tamil Nadu

Tablets Ltd., 264, Thambu Chetty St., Madras 600001.

HOSPITAL FURNITURE

Delhi

Capital Surgical Co. Pvt. Ltd., 7-B, N. Subash Marg, Daryaganj, Delhi 110006.

Maharashtra

Hitra Equipments, Khambata Lane, Opp. Victoria Garden P. O., Bombay 400027.

Tamil Nadu

Pikays Medico Surgicals, 199, Mount Rd., Madras 600002.

Medical Equipment Co., Jammi Bldg., Madras 600004.

West Bengal

H. Mukerji & Bannerjee Surgical Pvt. Ltd., 39/1, College St., Calcutta 700012.

ORTHOPAEDIC EQUIPMENT

Delhi

India Medico Instruments, 14, Angoori Bagh Market, Delhi 110006.

International Surgical Works Pvt. Ltd., 7 UA/3, Veena Niwas, Jawahar Nagar, Delhi 110007.

West Bengal

H. Mukerji & Bannerjee Surgical Pvt. Ltd., 39/1, College St., Calcutta 700012.

K. Bose, Pr. Orths (Germany), 112, Amherst St., Calcutta 700009.

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Electro Medical Apparatus Co., 3, Tandel St., South, Dongri, Bombay 400009.

Hitra Equipments, Khambata Lane, Opp. Victoria Garden P.O., Bombay 400027.

Karnataka

Kamal Industries, 2-F, M. Gandhi Rd., Bangalore 560001.

SURGICAL DRESSINGS

Delhi

Allied Surgical Dressings, Bhagirath Palace, Chandni Chowk, Delhi 110006.

Eagle Surgical Dressing Manufg. Co., 202, Lajpatrai Market, Delhi 110006.

Goa

Leukoplast (India) Pvt. Ltd., Rua de Curem, Panaji 403001.

Maharashtra

Diamond Surgical Dressing Works, 381, S. Guruji Marg, Bombay 400011.

Johnson & Johnson Ltd., Spencers Bldg., 30, Forjett St., Bombay 400036.

West Bengal

Jayer & Co., 12-B, N. Subash Rd., Calcutta 700001.

SURGICAL INSTRUMENTS

Andhra Pradesh

Elico Pvt. Ltd., B-17 Ind. Estate, Sanatnagar, Hyderabad 500018.

Jyothi Industries, C-31 Ind. Estate, Sanatnagar, Hyderabad 500018.

Delhi

Allied Surgical & Dressings, Bhagirath Palace, Chandni Chowk, Delhi 110006.

Capital Surgical Co. Pvt. Ltd., 7-B, N. Subash Marg, Darya Ganj, Delhi 110006.

Evershine Surgical Co., Mahalaxmi Market, Bhagirath Palace, Delhi 110006.

Gujarat

Shah Medical & Surgical Co. Ltd., Ajwa Rd., Vadodara 390001.

Karnataka

British Physical Labs. India Pvt. Ltd., 28, K. Hanumanthiah Rd., Bangalore 560027.

Paxal Corpn., 13, Sri Krishnarajendran Rd., Bangalore 560002.

The South India Surgical Co., 71/1 & 2 A. Sriniwasachar St., Bangalore 560002.

Maharashtra

Alfa Surgical & Engg. Co., 97, A.B. Udyog Bhavan, Old Prabhadevi Rd., Bombay 400028.

All India Surgical Mfg. Co., 146, Princess St., Bombay 400002.

Andhra Scientific Co. Ltd., Janmabhoomi Chambers, Ballard Estate, Bombay 400038.

Apurva Surgical Ind., 42, Dr. A. R. Nair Rd., Lamington Rd., Bombay 400008.

Asian Surgical Co., Alkarim Manzil, 15, Palton Rd., Bombay 400001.

Bengal Surgical, Khal Bhakhri, Savarkar Rd., Bombay 400028.

Bhatia Surgical, Khetwadi Main Rd., Sandhurst Rd., Bombay 400004.

Bombay Surgical Co., Opp. H. N. Hospital, Sandhurst Rd., Bombay 400004.

Chhadda Surgical Co., 20, Ishwar Bhuvan, Quarry Rd., Malad East, Bombay 400064.

Deo Surgical & Scientific Co., 9, Dalal St., Fort, Bombay 400001.

Fairdeal Surgical Corpn., 106, Bank of Baroda Bldg., Palton Rd., Bombay 400001.

Ideal Surgical Corpn., Mansoor Bldg., Princess St., Bombay 400002.

Imperial Surgical & Chemical Ind., 27/29, Kolbhat Lane, Bombay 400002.

Imperial Surgical Co. Pvt. Ltd., India House, Opp. G.P.O., Bombay 400001.

Kalelkar Surgical Ind., 305, Princess St., Bombay 400002.

Kemco Surgical, Princess St., Bombay 400002.

National Surgical Instrument Co., Haines Rd., Worli, Bombay 400018.

Reliable Surgical Corpn., 75, Love Lane, Mazagaon, Bombay 400010.

Standard Surgical & Dressing Works, 28, B. Genu Rd., Bombay 400002.

Sudhir Surgical Co., 46, Old Hanuman Lane, Bombay 400002.

Verbal Surgicals, Peerbhai Bldg., Princess St., Bombay 400002.

Warden Surgical Co. Pvt. Ltd., Mapla Mahal, Thakurdwar Rd., Bombay 400002.

Western India Surgical Co., 19/21, Ladwadi, Old Hanuman Lane, Bombay 400002.

Zenith Surgical Co., 206, 3C-Mangaldas Bldg., Mangaldas Rd., Bombay 400002.

Tamil Nadu

Medical Equipments Co., Jammi Bldg., Madras 600004.

Pikays Medico Surgicals, 199 Mount Rd., Madras 600002.

The South India Surgical Co., 196 Mount Rd., Madras 600002.

West Bengal

Calcutta Metallic Co., 11, H. Mukerjee Rd., Calcutta 700025.

H. Mukerji & Bannerjee Surgical Pvt. Ltd., 39/1, College St., Calcutta 700012.

X-RAY MACHINES

Delhi

Escorts Ltd., 11, Scindia House, Connaught Circus, New Delhi 110001.

Indian Technological Products, Technological House, 21, Babar Rd., New Delhi 110001.

Maharashtra

Elpro International Ltd., Chinchwad Gaon, Pune 411033.

Espi Trdg. Co., Neelkanth, 98, N. Subash Rd., Bombay 400002.

Goeltronics, Prasad Chambers, Opera House, Bombay 400004.

METALLISED MATERIALS

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METALLO-PLASTIC YARN

Rexor India Ltd., 33, Chittaranjan Ave., Calcutta 700012.

METALS—NON-FERROUS

Bihar

Express Cables Pvt., Ltd., 'Uday Bhavan', Fraser Rd., Patna 800001.

Delhi

Alcobex Metals Pvt. Ltd., 1, Ansari Rd., Daryaganj, Delhi 110006.

elton Cable Ind. Pvt. Ltd., Delton House, Bharat Ram Rd., 24, Darya Ganj, Delhi 110006.

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kytons Electricals (India), 2655, Sadar Thana Rd., Delhi 110006.

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ombay Conductors & Electricals Pvt. Ltd., Maninagar, Ahmedabad 380008.

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wastika Metal Works, Jagadhri.

arnataka

eepak Insulated Cable Corpn. Ltd., Coffee Board Bldg., 1, Vidhana Veedhi, Bangalore 560001.

ysore Wires & Metal Ind., 13-IV, Cross Magadi Rd., Bangalore 560023.

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adhya Pradesh

niversal Cables Ltd., P.O. Birla Colony, Satna 485001.

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shok Metal Ind., 6, Sewree Cross Rd., Bombay 400015.

sian Cables Corpn. Ltd., Nirmal, 241/242, Nariman Point, Bombay 400020.

sian Corpn., 91, Mohamedally Rd., Bombay 400003.

Bombay Metal & Alloys Manufg. Co. Pvt. Ltd., Off Magazine St., Near Reay Road Station, Bombay 400010.

Bralco Metal Ind. Pvt. Ltd., Gupta Mills Estate, Darukhana, Reay Rd., Bombay 400010.

Cable Corpn. of India Ltd., Laxmi Bldg., 6, Ballard Rd., Bombay 400038.

Cominco Binani Zinc Ltd., 12/18, V. Patel Rd., Bombay 400004.

Deccan Metal Works, 553, Rasta Peth, Pune 411011.

Devidayal Cable Ind. Ltd., Gupta Mills Estate, Darukhana, Reay Rd., Bombay 400010.

Devidayal Rolling & Refineries Pvt. Ltd., Gupta Mills Estate, Darukhana, Reay Rd., Bombay 400010.

Hindustan Metal and Engg. Co., 8/10, 2nd Carpenter St., Bombay 400004.

Hindustan Transmission Products, Kurla Vihar Rd., Chandivali, Bombay 400070.

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Indian Lightgauge Metal Products Pvt. Ltd., 8, Bhagwan Mansion, Cinema Rd., Bombay 400020.

Indian Smelting & Refining Co. Ltd., L. B. Shastri Marg, Bhandup, Bombay 400078.

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Metallica Works Pvt. Ltd., 138-141, Govt. Ind. Estate, Kandivli (West), Bombay 400067.

Montana Pvt. Ltd., Rahimtolla House, Homji St., Bombay 400001.

Popular Metal Works & Rolling Mills, Sion, Bombay 400022.

Rashtriya Metal Ind. Ltd., Andheri-Kurla Rd., P.O. J.B. Nagar, Bombay 400059.

Rasiklal Kantilal & Co., 145, Kika St., Bombay 400004.

Shuja Metal Centre, 55-57, Nakuda St., Bombay 400003.

Star Metal Refinery Pvt. Ltd., 361, Dr. D. Naoroji Rd., Bombay 400001.

Sudarshan Chokhani & Co., 138, Kalbadevi Rd., Bombay 400002.

Western Insulated Cables Ltd., Hadapsar Ind. Estate, P.B. 22, Pune 411001.

Punjab

Ind. Cables (India) Ltd., Ind. Area, Rajpura.

Rajasthan

Coventry Metals Rajasthan Pvt. Ltd., Babuji Ki Kothi, Nirvan Marg, Jaipur 302006.

Jaipur Metal Rolling Mills, City Palace Rd., Jaipur 302002.

Shri Mahesh Metal Works, Madawgunje, Kishangarh.

Multimetals Ltd., Heavy Ind. Areas, Kota 324003.

Tamil Nadu

Indian Metal & Metallurgical Corpn., 498, Mint St., Madras 600003.

Madras Aluminium Co. Ltd., Race Course, Coimbatore 641018.

Madras Electrical Conductors Pvt. Ltd., 37, Arcot Rd., Madras 600026.

Mysore Premier Metal Factory, 127, Mint St., Madras 600001.

Sargam Metals, 122, Nandambakkam, Madras 600016.

Uttar Pradesh

Hindustan Alluminium Corpn. Ltd., P.O. Renukoot, Mirzapur Dist.

Hindustan Metal Works, Hathras 204101.

Saru Smelting Pvt. Ltd., Sardhana Rd., Near Cantt. Rly. Stn., Meerut 250001.

West Bengal

A. T. Gooyee & Co., 68E, N. Subhash Rd., Calcutta 700001.

Aluminium Corpn. of India Ltd., 7, Council House St., Calcutta 700001.

Aluminium Manufg. Co. Ltd., 2, Jessore Rd., Dum Dum, Calcutta 700028.

Bengal Ingot Co. Ltd., 5, Hide Rd., Calcutta 700043.

Binani Metal Works Ltd., 38, Strand Rd., Calcutta 700001.

Castall Corpn. Pvt. Ltd., 8, India Exchange Place, Calcutta 700001.

Electrical Ind. Corpn., 99, M. Gupta Rd., Barisha, Calcutta 700008.

Everlite Insulating Ind. Pvt. Ltd., 137, B. Roy Road, West, Calcutta 700008.

Eyre Smelting Pvt. Ltd., 182/115, Diamond Harbour Rd., Calcutta 700008.

Fort Gloster Ind. Ltd., Cable Division, 31, Chowringhee Rd., Calcutta 700016.

Ganga Metal Refining Co. Pvt. Ltd., 43, Strand Rd., Calcutta 700007.

Hindustan Wire Products Ltd., 14, N. Subash Rd., Calcutta 700001.

India Foils Ltd., 4, Mangoe Lane, Calcutta 700001.

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Indian Cable Co. Ltd., 9, Hare St., Calcutta 700001.

Indo-American Electricals Ltd., 21, Old Court House St., Calcutta 700001.

Metals & Ores Co., 1, Middleton St., Calcutta 700016.

National Insulated Cable Co. of India Ltd., Nicco House, 1 & 2, Hare St., Calcutta 700001.

National Pipes & Tubes Co. Ltd., Nicco House, 1 & 2, Hare St., Calcutta 700001.

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METERS & MEASURING INSTRUMENTS—ELECTRICAL

Andhra Pradesh

Andhra Pradesh Electrical Equipment Corpn., Basant Rd., Sanatnagar, Hyderabad 500018.

Instruments Technique Laboratory, B-2, Co-op. Ind. Estate, Balanagar, Hyderabad 500037.

Delhi

Das Hitachi Pvt. Ltd., 21-A, Janpath (Windsor Place), New Delhi 110001.

Electrical Instrument Co., 20, Friends Colony, Grand Trunk Rd., Shahdara, Delhi 110032.

Meters and Instruments (Pvt.) Ltd., 4/90, Connaught Circus, New Delhi 110001.

Precision Instrument Manufg. Co., 1254, Kashmiri Gate, Delhi 110006.

Gujarat

Baroda Electric Meters Ltd., Vallabh Vidyanagar, Via Anand.

Karnataka

British Physical Lab. India Pvt. Ltd., 28, K. Hanumanthiah Rd., Bangalore 560027.

Maharashtra

Electro-Equipments Corpn. Ltd., 303-304, L. B. Shastri Marg, Mulund, Bombay 400080.

Electronic Products, Bombay Mutual Annexe, Gunbow St., Bombay 400001.

Enlec Enterprises, Seksaria Chambers, 139, N. Master Rd., Bombay 400001.

Gyro Laboratories Pvt. Ltd., 8, Gazdar St., Thakurdwar, Bombay 400002.

Industrial Meters Pvt. Ltd., Choksey Chambers, Zaveri Bazar, Bombay 400002.

The Motwane Manufg. Co. Pvt. Ltd., 127, M. Gandhi Rd., Fort, Bombay 400001.

Mysore Electrical Measuring Instruments, Unit No. 202-C, Ind. Estate, Ghatkopar, Bombay 400086.

National Supply & Dist. Agency, 11, Jay Mahal, Lohar Chawl, Bombay 400002.

Nippon Electrical Inst. Co., 12-A, Marol Maroshi Rd., Andheri (E), Bombay 400059.

Udeyraj & Sons, 158, K. M. Sharma Marg, Lohar Chawl, Bombay 400002.

West Bengal

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Universal Electrics Ltd., 15, India Exchange Place, Calcutta 700001.

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Haryana Foods Ltd., P.O. Pehowa Karnal Dist., Haryana.

Hindustan Lever Ltd., Etah 207001 Uttar Pradesh.

Kaira Distt. Co-op. Milk Producers Union Ltd., Anand 388001 Gujarat.

Mehsana Distt. Co-op. Milk Producers Union Ltd., Mehsana 384001 Gujarat.

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Milk Conservation Project, Vijaywada 520001 Andhra Pradesh.

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Arya Manufg. Co., 69, Shradhanand Marg, New Delhi 110006.

Barmi Engg. Works, Grand Trunk Rd., Qabool Nagar, Shahdara, New Delhi 110032.

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Manager : Y. A. Shetty.

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Phone : 25447.
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Manager : Pitambar Kumar Jain.

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Swadesamitran, 8, Mount Rd., Madras 600002.

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Maharashtra

Bradma of India Ltd., Lakshmi Bldg., Sir P. Mehta Rd., Bombay 400001.

Tamil Nadu

Facit Asia Ltd., Perungudi, Madras 600041.
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Rayala Corpn. Pvt. Ltd., 25A Mount Rd., Madras 600032.

West Bengal

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National Cash Register, 4-D, Dalhousie Sq. East, Calcutta 700001.
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Uttar Pradesh

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Recordex Business Systems, 8/1, E. Patel Nagar, New Delhi 110008.
Roneo Vickers India Ltd., 184, Jor Bagh, New Delhi 110003.

Madhya Pradesh

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Maharashtra

Vanguard Business Systems, 70-C, Gowalia Tank Rd., Bombay 400036.

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Karnataka

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Tamil Nadu

Instruments and Apparatus Pvt. Ltd., 193, Mount Rd., Madras 600002.

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Bharat Carbon and Ribbon Manufg. Co. Ltd., N-75, Connaught Circus, New Delhi 110001.

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Ram Nath & Sons, 2426, Chawri Bazar, Delhi 110006.

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Goa

Cartybon Pvt. Ltd., Chowgule House, Margao 403601.

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Numex Engrs., 306, Commerce House, Medows St., Bombay 400001.

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Jai Hind Oil Mills Co., 387, N. Nattha St., Bombay 400009.

Jayant Oil Mills, 13, Sitafalwadi, Mount Rd., Mazgaon, Bombay 400010.

Kamani Oil Mills, 365, Katha Bazar St., Bombay 400009.

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Lalji Poonshi & Co., P.B. 5064, 3, Chinch Bunder, Bombay 400009.

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West Bengal

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Quality Machinery Pvt. Ltd., Sector 6, Faridabad 121001.
Shah & Co., 161/63, Charni Rd., Bombay 400004.
Shaw Engg. Works, 227, Manicktolla Main Rd., Calcutta 700054.
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Paperware (India) Pvt. Ltd., 64, Scindia House, Connaught Circus, New Delhi 110001.
Peters India Pvt. Ltd., 26, Ind. Area, New Delhi 110015.
Sarawati Paper Converting Co-op. Ind. Soc. Ltd., 13A, Najafgarh Rd., New Delhi 110015.

Gujarat

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Ashok Products, Pratap Bunglow, Fatehpura, Vadodara 390006.
Baroda Box & Carton Manufg. Co., Behind Rly. Stn., Vadodara 390001.
Lamicoat Pvt. Ltd., 1299-B/1, Lal Darwaja, Nr. Dinbai Tower, Ahmedabad 380001.
Massawi Ind., 589/A, Nawa Darwaja Rd., Ahmedabad 380001.
Shakti Packaging Ind., 215, Ind. Estate, Vadodara 390003.

Karnataka

Cardboard & Packaging Co. Mysore Pvt. Ltd., Bank of India Bldg., 10, Kempegowda Rd., Bangalore 560009.
Industrial Packaging Products, C-32, Ind. Estate, Bangalore 560044.
Khoday Industries Pvt. Ltd., No. 10, Main Rd., Gandhinagar, Bangalore 560009.
Mysore Cardboard & Packaging Co. Ltd., Domlur Rd., Mysore 570001.

Madhya Pradesh

Shelley Products, 45, H.E. Ancillary Ind. Estate, Habibganj, Bhopal 462024.

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Ruby Box Factory, 54, Basti Nan, Jullundur 144001.

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West Bengal

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Arun Corrugating & Packaging Ind., 36, Brabourne Rd., Calcutta 700001.

Associated Packaging Ind., 37, B.R.B. Bose Rd., Calcutta 700001.

Cardboard Box of Calcutta Pvt. Ltd., 2/4A, S. Ghosh St., Calcutta 700009.

Cardboard Materials & Printing Co. Pvt. Ltd., 7, Convent Rd., Calcutta 700014.

Containers & Closures Ltd., 4, Fairlie Place, Calcutta 700001.

Crosley & Towers Pvt. Ltd., 7A, Lower Circular Rd., Calcutta 700017.

Diamond Products Ltd., 4, Clive Row, Calcutta 700001.

Impex Corpn., 235, R. M. Dutta Garden Rd., Calcutta 700010.

India Foils Ltd., 4, Mangoe Lane, Calcutta 700001.

Kajoria Chemipaper Pvt. Ltd., 28, Amratolla St., Calcutta 700001.

Metal Box Manufg. Co. of India Ltd., Barlow House, 59-C, Chowringhee, Calcutta 700020.

Modern Cardboard & Paper Ind. Ltd., 22, Canning St., Calcutta 700001.

Packaging & Printing Ind., 1, British Indian St., Calcutta 700001.

Prafulla Box Manufg. Co. Pvt. Ltd., 80/2, B. Khana Rd., Calcutta 700009.

S. Antool & Co. Pvt. Ltd., 91, A. P. Chandra Rd., Calcutta 700009.

Standard Box Co., 6, Annada Banerjee Lane, Calcutta 700020.

Swastik Box Manufg. Co., 36, G. Sitalatala Lane, Calcutta 700011.

PAINTS, VARNISHES & ENAMEL

Andhra Pradesh

Deccan Porcelain & Enamel Works Ltd., 2707, Bakaram P.B. 1801, Mushirabad, Hyderabad 500020.

Nellore Enamels, Ind. Estate, Nellore 524001.

Assam

Assam Paints & Chemical Works, Tinsukia 786125.

Delhi

Bhagsons Paint Ind. (I.), 16-A, DLF Ind. Area, Najafgarh Rd., Delhi 110015.

India Trading House, Fatehpuri, Delhi 110006.

International Paint Ind., 2/21, Roop Nagar, Delhi 110007

Khurana Bros., 1742, Nai Basti, S. P. Mukerji Marg, Delhi 110006.

Kohinoor Paint Colour & Varnish Works, 155, Katra Baryan, Fatehpuri, Delhi 110006.

Metro Paint Ind., 260, Kamla Market, New Delhi 110001

Saluja & Son, 192, Katra Baryan, Fatehpuri, Delhi 110006.

Spraylac Paints Corpn., 9, N. Subash Marg, Darya Ganj, Delhi 110006.

Uppal Paint Ind., 11/24, East Patel Nagar, New Delhi 110008.

Goa

Goa Paints & Allied Products, Dempo House, Campal, Panaji 403001.

Gujarat

Anchor Paint Manufg. Co., 959, Chandra Chambers, Raipur Chakla, Ahmedabad 380001.

Comet Paints Pvt. Ltd., A. Sojitra Rd., Vallabh Vidyanagar, Kaira Dist.

Good-luck Oil & Paint Co., Khanderao Rd., Opp. Jawahar Society, Vadodara 390001.

Lead Slips Products Pvt. Ltd., 61, New Cloth Market, Ahmedabad 380002.

Paradise Oil & Paints Products, N. I. Muni Ind. Estate, Bapunagar, Ahmedabad 380023.

Saurashtra Paints Pvt. Ltd., Vatva, Ahmedabad.

Valian Paints Pvt. Ltd., 38, Madhubhai Mills Comp., Ahmedabad 380018.

Haryana

Kohinoor Paint Colour & Varnish Works, 22/80 km., Mathura Rd., Faridabad 121001.

Karnataka

Amar Paints & Allied Ind., M. M. Ind. Estate, Yediyur, Bangalore 560011.

Bangalore Enamels, Paints & Chemicals Ltd., XI Main Rd., Malleswaram, Bangalore 560003.

Karnatak Paint & Allied Products, Gokul Rd., Hubli 580021.

Mysore Lac & Paint Works Ltd., Thilak Nagar, Mysore 570007.

Kerala

Travancore Enamel Ind. Ltd., Kundara.

Madhya Paradesh

Commercial Paint & Chemicals Works, 293, M. Gandhi Rd. (Kadabih), Indore 452001.
Synpro Ind., 50-51, Ind. Estate, Indore 452001.

Maharashtra

Advance Paints Pvt. Ltd., 125, N. Master Rd., Bombay 400001.
Anand Chemicals, 8, Horniman Circle, Botawala Bldg., Bombay 400001.
Anant Machinery Pvt. Ltd., Plot No. 3-B, Chinchwad Ind. Area, Pune 411019.
Asco Paint Ind., 26, Sutar Chawl, Bombay 400002.
Asian Paints (India) Pvt. Ltd., 'Nirmal', Nariman Point, Bombay 400020.
Atomic Paint Ind., Sonawala Estate, Goregaon (East), Bombay 400063.
Baker Bros., 31, C. P. Tank Rd., Bombay 400004.
Bharat Ind., I. B. Hasan Chambers, Parsee Bazar St., Bombay 400001.
Bharat Varnish Manufg. Co., L. B. Shastri Marg, Ghatkopar, Bombay 400086.
Blundell Eomite Paints Ltd., Rustam Bldg., 29, V. Nariman Rd., Bombay 400001.
Bombay Paints & Allied Products Ltd., Corridor Rd., Gavanpada, Chembur, Bombay 400074.
Bright & Co. Pvt. Ltd., Saki Vihar Rd., Sakinaka, Bombay 400072.
Carbon Dry Colour Works, 115, Nagdevi St., Bombay 400003.
Central Paint Co. Pvt. Ltd., 110, Ind. Estate, Indore.
Chemo Age Ind., Rambaug, Chincholi, S. Vivekanand Rd., Malad (West), Bombay 400064.
Chowgule & Co. (Hind) Pvt. Ltd., India House, Bombay 400001.
Colour Chem Ltd., Ravindra Annexe, D. Vachha Rd., Bombay 400020.
Cooper & Co., 53, Abdul Rehman St., Bombay 400003.
Cosmos Paint Ind., 119, Krishna Chowk, Mulji Jetha Market, Bombay 400003.
Crystal Paints, Seksaria Silk Mills Comp., Chincholi, S. Vivekanand Rd., Malad (West), Bombay 400064.
D. D. Shah & Co., Akurli Rd., Kandivli (East), Opp. Mahendra & Mahendra Ltd., Bombay 400067.
Dr. Beck & Co. (I) Ltd., Bombay-Pune Rd., Pimpri, Pune 411018.
Dujodwala Ind., 95-B, Marine Drive, Meghdut, Bombay 400002.
Dura Chemical Corpn. Pvt. Ltd., Wakefield House, 11, Sprott Rd., Ballard Estate, Bombay 400038.
Elphinstone Paint & Colour Manufg. Co., 50, Elphinstone Rd., Bombay 400013.
Esdee Paints, Near Power House, Kolshet Rd., Thana 400601.
Firoz Colour Ind., 66, A. Umer St., Bombay 400003.
Forage & Co., Tamarind House, 36, Tamarind Lane, Bombay 400001.
F. Victor & Co., 167, A. Rehman St., Bombay 400003.
General Pigment & Chem. Prod. Pvt. Ltd., Saki Vihar Rd., Saki Naka, Bombay 400072.
Goodlass Nerolac Paints Ltd., Forbes Bldg., Home St. Bombay 400001.
Hindustan Oil Mills, Post Office Lane, Saki Naka, Bombay 400072.
Ians Metal & Enamel Works, Pvt. Ltd., Kasturchand Mills Estate, Dadar, Bombay 400028.
Indofil Chemicals Ltd., Belvandi House, Dr. A. Besant Rd., Worli, Bombay 400025.
Industrial Coatings Corpn., T. K. Ind. Estate, Near Mckenzies, Off Acharya Donde Marg, Sewree, Bombay 400015.
Industrial Minerals & Chemicals Co. 125, N. Dhuru St., Bombay 400003.
Jayant Colour & Chemical Ind., Gupta Mill Estate, Darukhana, Reay Rd., Bombay 400010.
Jyoti Oil & Paint Co., Morarji Velji Estate, Gorai Rd., Borivli (West), Bombay 400092.
Kamal Paint Ind., Ram Mandir Ind. Premises, Ram Mandir Rd., Goregaon East, Bombay 400063.
Kapadia Bros., 81, A. Rehman St., Bombay 400003.
Khurana & Sons, I. B. Patel Rd., Goregaon (East), Bombay 400063.
Mercury Paint & Varnish Ltd., V. Sawarkar Rd., Prabhadevi, Bombay 400025.
Metalex Ind., Junction Tata-Agra Rd., Bhandup, Bombay 400078.
Midland Ind., 47, Great Nag Rd., Nagpur 440003.
Nagrechha Paint Ind., Ram Mandir Ind. Estate, Ram Mandir Rd., Goregaon (East), Bombay 400063.
Napro Paints & Varnishes Manufrs., 1278, S. Bajirao Rd., Vishnu Chowk, Pune 411030.
National Paint Manufg. Co., 75, Village Rd., Bhandup, Bombay 400078.
Navyug Colour & Chemical Co., 75, Village Rd., Bhandup, Bombay 400078.
New Era Paint Works, Plot No. 26, Mahal Ind. Estate, Mahakali Rd., Andheri (East), Bombay 400059.
Noble Paint & Varnish Co. Pvt. Ltd., Fergusson Rd., Lower Parel, Bombay 400013.
Ogale Glass Works Ltd., Ogalewadi, Satara Dist.
Panama Paint Ind., J. B. Nagar, M. V. Rd., Kondivita Lane, Andheri (East), Bombay 400059.
Pidilite Ind. Pvt. Ltd., Mafatlal House, Backbay Recl., Bombay 400020.
Pioneer Enamelling Works, Lakshmi Bldg., Sir P. Mehta Rd., Bombay 400001.
Polymer Finishes, 8, T. Jivaraj Wadi, Off King Edward Rd., Sewree, Bombay 400015.
Poysha Ind. Co. Ltd., Messant Rd., Bombay 400033.
Prakash Paint Ind., 11, Vipul Co-op. Housing Society Ltd., 255-A, Ridge Rd., Bombay 400006.
Rainbow Colour Works, I. B. Patel Rd., Goregaon (East), Bombay 400063.
Reliable Colour Works, 61, Jail Rd. (North), Bombay 400009.
R. R. Paint Ind. (I) Pvt. Ltd., L. B. Shastri Rd., Bhandup, Bombay 400078.
Sarang Paint & Varnish Ind., 'Advent', 2-A, Foreshore Rd., Bombay 400021.
Savlar Paint & Varnish Works Pvt. Ltd., Saki Vihar Rd., Saki Naka, Bombay 400072.
Saurashtra Paints Pvt. Ltd., Taj Bldg., Wallace St., Bombay 400001.
Sigma Paints Ltd., 221, Dr. D. Naoroji Rd., Bombay 400001.

Snowcem India Ltd., Killick House, Home St., Bombay 400001.

Star Paint & Oil Ind., Crescent Chambers, Tamarind Lane, Bombay 400001.

Sudarshan Chemical Ind., Pvt. Ltd., 27, Shankarshet Rd., Pune 411002.

United Colour Co., 26-A, A. R. Rangnekar Marg, French Bridge, Bombay 400007.

United Ink & Varnish Co. Pvt. Ltd., 37-40, Paranjpe B-Scheme, Vile Parle, Bombay 400057.

Universal Paint Corpn. Pvt. Ltd., 39, Nagdevi St., Bombay 400003.

Urvashi Ind., Block No. 16/A, Bombay Cotton Mills Estate, Kalachowki Rd., Bombay 400033.

Wakefield Paint Pvt. Ltd., 80, S. Vivekanand Rd., Jogeshwari, Bombay 400060.

Punjab

Kohinoor Paint Colour & Varnish Works, H.O.: 13, R. B. R. Chand Rd., The Mall, Amritsar 143001.

Rajasthan

Rajasthan Paints, Wadi Garden, Moti Dungri Rd., Jaipur 302004.

Tamil Nadu

Addisons Paints & Chemicals Ltd., Huzur Gardens, Sembiam, Madras 600011.

Anuradha Paints, 149/1, Ramapuram, Mt. Poonamallee High Rd., Madras 600089.

Madras Enamel Works, Ltd., 65, Sydenham Rd., Madras 600003.

Ravi Paints & Chemicals Ltd., 85-87, Armenian St., Madras 600001.

Uttar Pradesh

Alka Ind., Alambagh, Lucknow 226001.

Bansi Lal & Son, Sahibabad, P.O. Ghaziabad 201001.

Chemi Chrome Ind. Pvt. Ltd., 84/79, G.T. Rd., Kanpur.

Hindustan Paint & Chemical Works, 8/85, Arya Nagar, Kanpur 208001.

Modi Paint & Varnish Works, Modinagar.

Nagrath Paints Pvt. Ltd., 46, Fazalganj, Kanpur 208001.

Premier Paints, 123/435, Fazalganj, Kanpur 208001.

Punjab Paint Colour & Varnish Works, 123/529, Fazalganj, Kanpur 208001.

Reko Mercantile Traders, 28, Blunt Square, Lucknow 226001.

West Bengal

A. K. Sarkar Ind. Pvt. Ltd., 32-1-Dalhousie Sq., Calcutta 700001.

Alkali & Chemical Corpn. of India Ltd., 18, Strand Rd., Calcutta 700001.

Asiatic Paints & Chemicals, 3, Commercial Bldg., N. Subash Rd., Calcutta 700001.

Associated Pigments Ltd., 14, N. Subash Rd., Calcutta 700001.

Beco Chemicals, Thapar House, Calcutta 700001.

Belur Paint & Colour Co., 2, Mullick St., Calcutta 700007.

Bengal Enamel Works Ltd., 41, Chowringhee Rd., Calcutta 700016.

Bharat Tin & Enamel Co. Pvt. Ltd., 24, Shakespeare Sarani, Calcutta 700016.

Bijoy Paints & Chemicals, 6A, Balmukund Meccar Rd., Calcutta 700007.

Blue Star Enamelware Co. Pvt. Ltd., 4, Dalhousie Sq. East, Calcutta 700017.

British Paints (I.) Ltd., 32, Chowringhee Rd., Calcutta 700016.

Calcutta Paint Colour & Varnsih Works, 8, Chunapukur Lane, Calcutta 700012.

Chemi Paint Ind., 9, Lall Bazar St., Mercantile Bldg., Calcutta 700001.

Containers & Closures Ltd., 2, Fairlie Place, Calcutta 700001.

Eagle Paint & Pigment Ind. Pvt. Ltd., 135, B. R. B. Bose Rd., Calcutta 700001.

East India Paint & Chemical Works Ltd., 21, G. C. Bose Lane, Calcutta 700050.

Empire Chemical Co., 5, Kustia Rd., Calcutta 700029.

General Paint Co. of India, Kaikhali P.O. Rajarhat, Gopalpur, Dum Dum 700028

G. S. Enterprise, 11, Ram Ratan Bose Lane, Calcutta 700004.

Hoyle's Paints Ltd., 18, Rabindra Sarani, Calcutta 700001.

Indian Aluminium Co. Ltd., 1, Middleton St., Calcutta 700016.

Indian Paint Colour & Varnish Co. Ltd., 14, N. Subash Rd., Calcutta 700001.

Indian Paints & Chemicals, 'Duke Court', 76, Theatre Rd., Calcutta 700017.

Jenson & Nicholson (I.) Ltd., 225, A. J. Bose Rd., Calcutta 700020.

Kem Ind. Products Pvt. Ltd., 40, Tangra Rd., Calcutta 700015.

Lakshmi Paint Works, 14/2, Old China Bazar St., Calcutta.

Macfarlane Paints, 18, R. N. Chowdhury Rd., Calcutta 700015.

M. L. Day & Co., 57B, Chittaranjan Ave., Calcutta 700012.

Murarka Paint & Varnish Works Pvt. Ltd., 8E, Dalhousie Square East, Calcutta 700001.

Napier Paint Works Pvt. Ltd., 3, Meti Sil St., Calcutta 700013.

Narayan Chowdhury Bros. Pvt. Ltd., 4, Jahura Bazar Lane, Calcutta 700012.

N. Haidar & Co. Pvt. Ltd., 21/D, S. Chatterjee St., Calcutta 700006.

Paints & Chemicals Co., 10, Govt. Place East, 26A, Ezra Mansion, Calcutta 700001.

Paints & Lacquers, 11B, S. N. Banerjee Rd., Calcutta 700013.

P. C. Chanda & Co. Pvt. Ltd., Budge Budge Rd., Calcutta 700060.

Ruby Paint & Varnish Works Pvt. Ltd., 96, M. Gandhi Rd., Calcutta 700007.

Shalimar Paints Ltd., 13, Camac St., Calcutta 700017.

Solar Paint & Varnish Manufg. Co., B. Trunk Rd., P.O. Belgharia, Calcutta 700056.

Solar Paints Pvt. Ltd., 14, Barrackpore Trunk Rd., Calcutta 700056.

Sur Enamel & Stamping Works Ltd., 9, Middle Rd., Calcutta 700001.

Technico Enterprizes Pvt. Ltd., 592, Block 'O', New Alipore, Calcutta 700053.

United Paint Ind., 40/1, Strand Rd., Calcutta 700001.

Waldies Ltd., Gillander House, 8, N. Subash Rd., Calcutta 700001.

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Diamond Products Ltd., 4, Clive Row, Calcutta 700001.
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Strawboard Manufg. Co. Ltd., Saharanpur 247001.

PAPER—HANDMADE

All India Khadi & Village Industries Commission, P.O. Box No. 432, Bombay 400001.
Handmade Paper Research Centre, Agricultural College Compound, Pune 411005.

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Paper Products Ltd., Vaswani Mansions, D. Vacha Rd., Bombay 400020.
Sehgal Puri Pvt. Ltd., D. B. Gupta Rd., New Delhi 110055.
Siddhomal Paper Conversion Co., Chowri Bazar, Delhi 110006.

PAPER CONVERTING MACHINES

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Bertrams Scott India Ltd., 1/1, Kimber St., Calcutta 700017.

Bombay Paper Manufg. Co., 109, Zaveri Bazar, Bombay 400002.

Eastern Paper Mills Ltd., 1, Dakshindari Rd., Calcutta 700048.

Goyal Bros., 4033, Chawri Bazar, Delhi 110006.

Jayant Paper Mills Ltd., 132, Dr. A. Besant Rd., Worli, Bombay 400088.

Larsen & Toubro Ltd., L & T House, Ballard Estate, Bombay 400038.

Paper & Pulp Conversion Ltd., 376, Shukrawar Peth, Pune 411002.

Paper Mill Plant and Machinery Manfrs. Ltd., Jogeshwari Estate, Bombay 400060.

Rameshwar Das Madan Mohan, 978, Chhipiwara Khurd, Chawri Bazar, Delhi 110006.

Rohtas Industries Ltd., P.O. Dalmianagar, Bihar.

Seshasayee Paper & Board Ltd., Cannery, R.S., S.O. Erode 638007.

Shree Vindhya Paper Mills Ltd., Empire House, Dr. D. Naoroji Rd., Bombay 400001.

Supanekar Machine Ind. Pvt. Ltd., Gultekadi Rd., Near Swargate, Pune 411009.

Union Paper & Board Mills Ltd., 18, N. Subash Rd., Calcutta 700001.

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PATTERNS — WOODEN & METAL

Kulkarni Patterns Pvt. Ltd., 22/6, Hadapsar Ind. Estate, Pune 411013.

PENS—BALL POINT & FOUNTAIN

Delhi

Hindustan Plastic Corpn., 923, Faiz Rd., Karol Bagh, New Delhi 110005.

Maharashtra

Asian Art Ind., 30, Govt. Ind. Estate, Kandivli, West, Bombay 400067.

Balakrishna Pen Pvt. Ltd., Nagardas Rd., Andheri, Bombay 400069.

Dhiraj Pen Manufg. Co. Pvt. Ltd., 58/59, Kurla-Andheri Rd., Bombay 400069.

Gujarat Ind., Lalji Mansingh Bldg., 6, Lohar Chawl, Bombay 400002.

Lion Pencils Pvt. Ltd., 95, Marine Drive, Bombay 400020.

Mhatre Pen and Plastic Ind. Ltd., Tulsi Pipe Rd., Dadar, Bombay 400028.

Pankaj Pen Ind., I. B. Patel Rd., Goregaon East, Bombay 400063.

Premier Products, Anuj Plastic, New Bldg., G. B. Rd., Dahisar, Bombay 400068.

Triplex Products, Agarwal Est., 139, G. S. Vivekanand Rd., Jogeshwari West, Bombay 400060.

Watumull Ind. Pvt. Ltd., Del Star, 9-9A, Hughes Rd., Bombay 400026.

Tamil Nadu

Pilot Pen Co. (I) Ltd., 6, Armenian St., Madras 600001.

PERFORATED METALS

(See under Metals—Perforated in this list)

PERFUMES & AGARBATTI

Delhi

Bombay Perfumery Co., 1997, Gali Nilawali, Sitaram Bazar, Delhi 110006.

Calcutta Perfumery Works, Behind Kumar Cinema, Chandni Chowk, Delhi 110006.

Gogia Chemical Ind., G-1/4, Model Town, Delhi 110009.

Gupta & Co., Sadar Bazar, Delhi 110006.

J. K. Ind. Perfumers, 7, Shandar Market, 1430, Chitli Qubar, Delhi 110006.

Kanta Chemical Co., 133, Tilak Bazar, Khari Bauli, Delhi 110006.

Mohanlal Pyarelal, 5594/91, Gandhi Market, Sadar Bazar, Delhi 110006.

Rishabh & Co., 565, Paharganj, New Delhi 110055.

Seth Brothers, 2348, Tilak Bazar, Delhi 110006.

Sohan Singh Attarwala & Son, 6484-Katra Baryan, Fatehpuri, Delhi 110006.

Gujarat

Ami Chemicals, Desra Rd., Bilimora, Valsad Dist.

J. B. Shah & Co., Pankaj Society, Sarkhej Rd., Ahmedabad 380007.

M. L. Rathod & Co., Opp. Gaisford Talkies, Rajkot 360001.

R. V. Dodia & Co., Dodia Mansion, M. Gandhi Rd., Rajkot 360001.

Wala & Co., Nanbhawadi, Bhavnagar 364002.

Karnataka

Aromatik (I) Pvt. Ltd., 38, Link Rd., Malleswaram, Bangalore 560003.

Arvind Parimala Works, Mysore 570004.

Bharat Ind. Corpn., 67, Third Cross Rd., Srirampuram, Bangalore 560021.

Modern India Trading Co., 5, Park Rd., Bangalore 560002.

Mysore Agarbatti Co., 1, Madarsab St., Bangalore 560053.

N. Rangarao & Sons, 100 ft. Rd., Mysore 570001.

Maharashtra

A. A. Attarwala & Co., 295, Janjikar St., Opp. Jumma Masjid, Bombay 400002.

A. Hami Bros., 8, Patka Manzil, E. Rahimtoolla Rd., Bombay 400003.

A. J. Patwa & Co., 86, Sutar Chawl, Bombay 400002.

Allwyns, Ram Niwas, Second Parsiwada, V. Patel Rd., Bombay 400004.

Aromatic & Ind. Chemicals Pvt. Ltd., Mulji Jetha Bldg., 12, Champa Galli Cross Lane, Bombay 400002.

Aromatic Products & Chemicals Pvt. Ltd., 42, Prospect Chambers, Dr. D. Naoroji Rd., Bombay 400001.

Attari Bros., 3, Commercial Chambers, Masjid Bunder Rd., Bombay 400003.

Camphor & Allied Products Ltd., Jehangir Bldg., 133, M. Gandhi Rd., Bombay 400001.

D. D. Shah & Co., Damodar Bldg., 105, S. Gandhi Marg, Bombay 400002.

Divine Perfumers, Pirbhoy Bldg., 89, S. Gandhi Marg, Bombay 400002.

Dujodwala Ind., 1401, Prasad Chambers, Near Roxy Cinema, Bombay 400004.

Eastern Aromatics Pvt. Ltd., Datta Mandir Rd., Bhandup, Bombay 400078.

Enamdar Trading Co., Devkaran Mansion, 63, S. Gandhi Marg, Bombay 400002.

Ethical Products (I) Pvt. Ltd., Advani Chambers, Sir P. Mehta Rd., Bombay 400001.

Foreign Scent Supplying Syndicate, Station Rd., Goregaon West, Bombay 400062.

Fragrance and Flavour Corpn., C-11, Udyog Sadan, Marol Ind. Area, Andheri East, Bombay 400059.

Golax Ind. Perfumers, A-4, Shivaji Service Ind., Taikalwadi Rd., Bombay 400016.

Gosha Kemo (I), Devkaran Mansion, 79/A, S. Gandhi Marg, Bombay 400002.

Gupta & Co., Saraf Mansion, S. Gandhi Marg, Bombay 400002.

H. M. Zakaria & Bros., 299, V. Patel Rd. East, Bhendi Bazar, Bombay 400003.

Hami & Co., New Cutlery Market, Jumma Masjid Rd., Bombay 400002.

Hemani Aromatics, Minerva Movietone Compound, Bunder Rd., Sewri, Bombay 400015.

Ina Trading Co., 107, S. Gandhi Marg, Bombay 400002.

Indian Organic Chemicals Ltd., 28, Apollo St., Bombay 400001.

Industrial Perfumes Ltd., Army & Navy Bldg., M. Gandhi Rd., Bombay 400001.

J. D. Savant & Co., Gordhandas Khimji Bldg., 35, Vithaldas Rd., Bombay 400002.

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MYSORE SUGANDHI DHOOP FACTORY PVT. LTD.
Established 1934
RECOGNISED EXPORT HOUSE
P.O. BOX NO. 3178, BOMBAY-400003 INDIA PHONE : 324584

Jaysmee Products, 126, K. Syed St., Bombay 400003.

Lana Floressens, 178, C.S.T. Rd., Kalina, Bombay 400029.

M. D. Patel & Co., 79/A, S. Gandhi Marg, Bombay 400002.

M. M. Khambatwala, 440, Kalbadevi Rd., Bombay 400002.

Mahesh Ind. Chemicals Pvt. Ltd., Maganlal Prabhudas Bldg., 52/54, Nakhoda St., Bombay 400003.

Mody & Co., Engineer Bldg., 265, S. Gandhi Marg, Bombay 400002.

Mysore Fine Agarbatti Factory, Shop No. 50, M.M.C. Market, Grant Rd., Bombay 400007.

Mysore Sugandhi Dhoop Factory, 13, Commercial Chambers, Masjid Bunder Rd., Bombay 400003.

Mysore Y. G. Agarbatti Works, Rangoonwala Bldg., 91, Mohamedali Rd., Bombay 400003.

Mysore Y. S. Agarbatti Works, 6, Arab Lane, Byculla, Bombay 400008.

Naarden Chemical Works (I) Ltd., Sakinaka, 6, Saki Vihar Rd., Bombay 400072.

National Essence Supply Co., Tanksal Bhavan, 191, Kalbadevi Rd., Bombay 400002.

National Trading Co., 190-91, Mangaldas Rd., Bombay 400002.

New India Aromatics Co., Devkaran Mansion No. 3, 45/47, S. Gandhi Marg, Bombay 400002.

Oriental Aromatics, Saraf Mansion, 32, S. Gandhi Marg, Bombay 400002.

P. M. Rathod & Co. Pvt. Ltd., 453, Kalbadevi Rd., Bombay 400002.

Pearlline Paris Pvt. Ltd., Rehman Bldg., 24, V. Nariman Rd., Bombay 400001.

R. C. Aromatics & Chemicals, 69, Bhandari St., Mandvi, Bombay 400003.

Radhakrishnan Rajaram & Co., 141, S. Gandhi Marg, Bombay 400002.

Rayon Ind., Navyug Mansion, N. Barucha Rd., Grant Rd., Bombay 400007.

S. H. Kelkar & Co., Pvt. Ltd., 36, Mangaldas Rd., Bombay 400002.

Saiba Ind. Pvt. Ltd., 129/31, K. Syed St., Bombay 400002.

Satish Perfumers, C/o. V. M. Kelkar, Mulchand Mansion, S. Gandhi Marg, Bombay 400002.

Shah Agarbatti Co., 66, Kalyan St., Bombay 400009.

Sunanda Aromatic Ind., 11-13, Botawala Chambers, Horniman Circle, Bombay 400001.

Suneeta Aromatics, Three View Bldg., Opp. Century Bazar, Bombay 400025.

Synoflor Co., Saraf Mansion, 32, S. Gandhi Marg, Bombay 400002.

Vishwa Bharati Traders, 206, Anant Deep Chambers, 273/77, N. Natha St., Bombay 400009.

Western India Chemical Co., Aromatic Division, Bassein, Thana.

Rajasthan

Adarsh Chemical Works, Adarsh Nagar, Jaipur 302004.

Tamil Nadu

Kanuma Aromatics, 85, N. Naick St., Madras 600003.

Uttar Pradesh

Chhotelal & Co., Sant Kabir Rd., Varanasi 221001.

Jainco Products, Perfumers, Kannauj.

Kanhayalal Madhoram, Perfumers, Kannauj.

Lala Pragdutt Kamta Prasad, Perfumers, Kannauj.

Munnalal Sons & Co., Hina Bldg., Kannauj.

Perfumers India Pvt. Ltd., B.N. Rd., Lucknow 226001.

Shaivi Industries, Chowk, Lucknow 226003.

PESTICIDES

Andhra Pradesh

Hyderabad Chemical Supplies Pvt. Ltd., Bank St., Hyderabad 500001.

Jayalakshmi Fertilisers, Pesticides Division, Venkatarayapuram, Tanuku.

Plant Protection Products Pvt. Ltd., 4/90, A-Nawabpet, Nellore 524002.

Bihar

Bihar Insecticides, P.O. Majhaulia, Champaran Dist.

Delhi

Dow Chemicals N.V., 14, Golf Links, New Delhi 110003.

Grain Conservation & Warehousing Ind. Pvt. Ltd., 16-B, Poorvi Marg, New Delhi 110060.

Hindustan Insecticides Ltd., C-255, Defence Colony, New Delhi 110003.

Industrial & Allied Sales Pvt. Ltd., 2E, Rani Jhansi Rd., New Delhi 110055.

Industrial Chemicals & Minerals, 4/5-B, A. Ali Rd., New Delhi 110001.

Jaipal Udyog, 604 Akash Deep, 26-A, Barakhamba Rd., Connaught Lane, New Delhi 110001.

Northern Minerals Pvt. Ltd., 138, Kamla Market, New Delhi 110001.

Pesticides India, 16, Ring Rd., Lajpat Nagar IV, New Delhi 110024.

Union Carbide India Ltd., United Commercial Bank Bldg., Parliament St., New Delhi 110001.

Valsicol Chemical Corpn., C-4/38, Safdarjang Development Area, New Delhi 110016.

Voltas Ltd., 10-A, K. Gandhi Rd., New Delhi 110001.

Goa

Goa Pesticides Pvt. Ltd., Chowgule House, Margao 403601.

Gujarat

Alembic Chemical Works Co. Ltd., Alembic Rd., Vadodara 390003.

Cropmore Pvt. Ltd., C-5 Naroda Ind. Estate, P.O. Naroda, Ahmedabad 380002.

Selective Chemicals Pvt. Ltd., Ruvapari Rd., Bhavnagar 364001.

Karnataka

Agromore Ltd., Mysore Rd., Bangalore 560026.

Bangalore Pesticides Ltd., 7/4, Sankey Rd., Bangalore 560020.

Kerala

Aspinwall and Co. Ltd., Calnety, Cochin 682001.

Entoma Insecticides & Agro Chemicals, "Ram Kripa", Yakkara Rd., Palghat 678001.

Travancore Chemical & Manufg. Co. Ltd., Alwaye 683101.

Madhya Pradesh

National Pesticides, 5, Ind. Area, Vidisha 464001.

Maharashtra

Bayer (India) Ltd., Express Towers, Nariman Point, Bombay 400021.

Bharat Pulverising Mills Pvt. Ltd., Hexamar House, 28, Sayani Rd., Bombay 400025.

Bombay Chemicals Pvt. Ltd., 129, M. Gandhi Rd., Bombay 400001.

Bombay Fumigation Co. Pvt. Ltd., 93, Bazargate St., Bombay 400001.

Burmah-Shell Oil Storage and Distributing Co. of India Ltd., Burmah-Shell House, Ballard Estate, Bombay 400038.

Camphor & Allied Products Ltd., Jehangir Bldg., 133, M. Gandhi Rd., Bombay 400001.

Central Insecticides & Fertilizers, Vihar Lake Rd., Saki Naka, Bombay 400072.

Ciba of India Ltd., Khetan Bhavan, 198, J. Tata Rd., Bombay 400020.

Cynamid India Ltd., Nyloo House, 254-D2, Dr. A. Besant Rd., Bombay 400025.

Dai-Ichi Karkaria Pvt. Ltd., Liberty Bldg., New Marine Lines, Bombay 400001.

Delicia India Ltd., Mahalakshmi Chambers, 22, B. Desai Rd., Bombay 400026.

Dharamsi Morarji Chemical Co. Ltd., Prospect Chambers, 317/21, Dr. D. Naoroji Rd., Bombay 400001.

Excel Ind. Ltd., 184-87, S. Vivekanand Rd., Jogeshwari, Bombay 400060.

Farm Chemicals Ltd., Jiji House, Ravelin St., Bombay 400001.

Feeds & Fertilizers, 40, Western India House, Sir P. Mehta Rd., Bombay 400001.

Hico Products Pvt. Ltd., Mogal Lane, Mahim, Bombay 400016.

Hoechst Pharmaceuticals Ltd., Dugal House, Backbay Recl., Bombay 400020.

Indofil Chemicals Ltd., Belvandi House, Dr. A. Besant Rd., Bombay 400025.

Industrial Minerals & Chemical Co., 125, N. Dhuru St., Nagdevi, Bombay 400003.

May & Baker (India) Pvt. Ltd., P.N.B. House, Sir P. Mehta Rd., Bombay 400001.

Monsanto Chemicals of India Pvt. Ltd., Wakefield House, 11, Sprott Rd., Ballard Estate, Bombay 400038.

National Organic Chemical Ind. Ltd., Sandoz House, Dr. A. Besant Rd., Bombay 400018.

New Chemi-Mineral Mills Pvt. Ltd., Ashok Nagar Cross Rd., No. 1, Kandivli (East), Bombay 400067.

Panta Chem, Station Rd., Ahmednagar 414001.

Pest Control (India) Pvt. Ltd., Yusuf Bldg., M. Gandhi Rd., Bombay 400001.

Pesticides Brewers Ltd., Village Chitalsar, Munpada, Ghodbunder Rd., Thana.

Pestokem Ind. Pvt. Ltd., 40/3, Shankar Vihar, 17th Rd., Chembur, Bombay 400071.

Rallis India Ltd., Rallis House, 21, Ravelin St., Bombay 400001.

Sai-Chemie International, 203, Pushpa Bhavan, Opp. Telephone Bhavan, Colaba, Bombay 400005.

Sandoz (India) Ltd., Sandoz House, Dr. A. Besant Rd., Worli, Bombay 400018.

Standard Mineral Products Pvt. Ltd., 94, N. Master Rd., Bombay 400001.

Star Chemicals (Bombay) Pvt. Ltd., 21, Noble Chambers, Parsi Bazar St., Bombay 400001.

Sudhir Chemical Co., 524, Sayani Rd., Bombay 400025.

Sviluppo Attivita Industrialie Commercialie, S.P.A., Saheb Bldg., 195, Dr. D. Naoroji Rd., Bombay 400001.

Tata Chemicals Ltd., Bombay House, 24, Bruce St., Bombay 400001.

Tata Fison Ind. Ltd., 21, Ravelin St., Bombay 400001.

Rajasthan

Krishna Miners & Traders, 1, Gehlot Bhavan, New Colony Rd., Jaipur 302001.

Metal Udyog Pvt. Ltd., Gulab Niwas, M. Ismail Rd., Jaipur 302001.

Pesticides India, Post Box 20, Udaipur 313001.

Prakash Pulverising Mills, Ind. Area, Alwar 301001.

Tamil Nadu

Bhavaneswari Pulverising Mills Pvt. Ltd., 6-A, North Crescent Rd., T. Nagar, Madras 600017.

E.I.D. Parry Ltd., Dare House, Madras 600001.

Geo Ind. & Insecticides (I.) Pvt. Ltd., Tiruvottiyur, Sathangadu, Madras 600019.

Insecticides & Allied Chemicals, Narayana Puram, Pallikaranai Village, *via* Tambaram, Chingleput Dist.

Mettur Chemicals & Ind. Corpn. Ltd., Mettur Dam R.S., Salem Dist.

Mysore Insecticides Co. Pvt. Ltd., Andhra Bank Bldg., No. 6, Linghi Chetty St., Madras 600001.

Scientific Insecticides Co. Pvt. Ltd., 13/14, Second Line Beach, Madras 600001.

Uttar Pradesh

Kanpur Pesticides, 15/78, Civil Lines, Kanpur 208001.

Motilal Pesticides (I.), H. O. Raman Tower, Mathura 281001.

Prakash Insecticides Pvt. Ltd., H.O. Naini, 263001.

Singhal Pesticides, 9/122, Moti Bagh, Jamuna Bridge, Agra 282006.

West Bengal

Alkali & Chemical Corpn. of India Ltd., 18, Strand Rd., Calcutta 700001.

Bharat Minerals & Chemicals Co., 174, M. Gandhi Rd., Calcutta 700007.

Croplife Chemicals Pvt. Ltd., 2, P. Sarkar St., Calcutta 700013.

Imkemex India Ltd., 34, Chowringhee, Calcutta 700016.

India Alkalies Ltd., 5, Garstine Place, Calcutta 700001.

Kanoria Chemicals & Ind. Ltd., 9, Brabourne Rd., Calcutta 700001.

Mascot Insulations, 99/5/8A, Ballygunge Place, Calcutta 700019.

Metropole Ind., 73, N. Subash Rd., Calcutta 700001.

Rajda Pesticides & Pest Control Corpn., 1, Portuguese Church St., Calcutta 700001.

Shaw Wallace & Co. Ltd., 4, Bankshall St., Calcutta 700001.

PETROLEUM PRODUCTS (Also see Chapter on Petroleum Industry.)

Goa

Goa Carbons Ltd., Dempo House, Panjim 403001.

Maharashtra

A & P Traders, 61, Bhandari St., Mandvi, Bombay 400003.

Bharat Petroleum Products, Anant Deep Chambers, Narsi Natha St., Bombay 400019.

Gulf Oil (India) Pvt. Ltd., Steelcrete House, 3, D. Vacha Rd., Bombay 400020.

Petro-Chem Ind., Lohana Mahaparishad Bhuvan, 10, Khetwadi 4th Lane, Bombay 400004.

Petro Products Ind., 16, Vithaldas Rd., Bombay 400002.

Pioneer Oil Co., 354, N. Natha St., Katha Bazar, Bombay 400009.

PHARMACEUTICALS

(See under Drugs and Pharmaceuticals).

NATIONAL ORGANIC CHEMICAL INDUSTRIES LIMITED

Registered Office :

Mafatlal Centre, Nariman Point,
BOMBAY 400021.

Telephone : 258066. Telegram : "PETRONOCIL." Telex : 2465 and 2296.

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Products manufactured : Ethylene, Propylene, Benzene, Butadiene, Methane, Ethylene Oxide, Ethylene Glycol, Diethylene Glycol, Polyethylene Glycol, Ethylene Dichloride, Vinyl Chloride Monomer, PVC Resins and Compounds, Isopropanol, Methyl Isobutyl Ketone, Acetone, Diacetone Alcohol, Butanol, 2-Ethyl Hexanol.

Exclusive Distributors in India for Shell Chemicals, Agricultural & Public Health Products, Industrial Products.

Central Sales Office :

Mafatlal Centre, Nariman Point, Bombay 400 021.
Telephone : 258066

Branches at :

Bombay: Mafatlal Centre, Nariman Point, Bombay 400 021. Phone: 258066. Grams: "SALESNOCIL."

Calcutta : Himalaya House, 38, Chowringhee, Post Box No. 2468, Calcutta. Telephone: 240054. Grams : "SALESNOCIL."

New Delhi : Bank of Baroda Bldg., 16, Parliament Street, New Delhi. Telephone : 312775. Grams : "SALESNOCIL."

Madras : Kothari Buildings, 20, Nungambakkam High Road, Nungambakkam P.O., Post Box No. 3316, Madras 34. Telephone : 811848. Grams : "SALESNOCIL."

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Mr. Rasesh Navinchandra Mafatlal.

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Dr. Cyrus Jehangir Dadachanji, Administrative Managing Director.

Mr. William Cran Thomson.

Mr. Gerald Harle Tatham.

Mr. Madhukar S. Patwardhan.

Mr. A. K. J. Van Schravendijk.

Mr. Pieter Jan Schoenmakers, Technical Managing Director.

Mr. Haravu Varada Raj Iengar.

Mr. Nani Ardeshir Palkhivala.

Mr. Dindayal Sharma.

Mr. John Anderson (alternate to Mr. W. C. Thomson).

Mr. Raghavayya Setlur (alternate to Mr. G. H. Tatham).

Mr. M. H. Wyvekate (alternate to Mr. A. K. J. Van Schravendijk).

GOA CARBON LIMITED

Dempo House, Campal, Panjim,
Goa.
Estd. : 1967

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Manufacturers of :
Calcined Petroleum Coke

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Board of Directors :

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Mr. H. C. Mahindra
Mr. B. K. Shah
Mr. P. R. Quenim
Mr. Vaikunthrao S. Dempo

GULF OIL (INDIA) PRIVATE LIMITED

Registered Office :
Steelcrete House, 3, Dinsha Wacha Road,
Bombay-400 020.

Importers, Manufacturers & Distributors of
Petroleum Products

Area Offices :
Ahmedabad, Indore and Madras.

Director & Manager :
K. J. Lawyer.

Assistants : H. Jaffrey,
A. V. Balasubrahmanian,
B. N. Shroff.

Phone : 295131 (3 lines).

Grams : " GULFINDIA ". Telex : 011-3520.

ASSOCIATED ENGINEERING CO.

Geethmala Building, Deonar,
Govandi, Bombay 88

Manufacturers:

ENGINEERING DIVISION

- GLUCOSE AND STARCH PLANTS
- PHARMACEUTICAL & CHEMICAL PLANTS
- INDUSTRIAL MACHINERY
- PLATE BENDING MACHINES
- STAINLESS STEEL PUMPS
- VEGETABLE OIL PROCESSING EQUIPMENT

CHEMICAL DIVISION

TEXTILE BINDERS AND RESINS

BOMBAY FACTORY

Deonar, Govandi, Bombay 88.
Grams : " STELLIDES ", Bombay 88
Phones : 525789, 527124 Office
521561 Residence

KERALA FACTORY

P. B. No. 2, Perambavoor P. O.
Grams : " STELLIDES ". Phones : 325, 512.

HYDERABAD FACTORY

Plot No. B-82,
Assisted Private Industrial Estate,
Sanatnagar, Hyderabad 18.
Grams : " STELLIDES ".
Phones : 39475 Office & Works
37934 Residence

PHARMACEUTICALS MACHINERY

Associated Engg. Co., Geethmala Bldg., Central Avenue Rd., Chembur, Bombay 400071.

PHOTO GOODS

Agfa-Gevaert India Ltd., 41, New Marine Lines, Bombay.

Camera Works Pvt. Ltd., c/o Chowgule & Co. Hind Pvt. Ltd., India House, opp. G.P.O. Fort St., Bombay 400001.

Chemical Moulding Manufg. Co. Pvt. Ltd., Shapoor Baug, Marol, M. Vassanji Rd., Bombay 400059.

Ensign India Pvt. Ltd., P. O. Box 2459, Calcutta 700001.

Great India Trdg. Co., 8, Beaumon Chambers, 27/33, N. Master Rd., Bombay 400001.

Kesho Ram & Sons India Pvt. Ltd., opp. Dariba, Chandni Chowk, Delhi 110006.

Kodak Ltd., Kodak House, Dr. D. Naoroji Rd., Bombay.

Patel India Pvt. Ltd., 190, Dr. D. Naoroji Rd., Bombay

PHOTOGRAPHIC EQUIPMENT

Delhi

Color Crafts, 63 Panchkuin Rd., New Delhi 110055.

Gujarat

Modern Photo Traders, 10, Jairaj Plot, Rajkot 360001.

Haryana

Seth Sons, Bazar Bastipur, Ambala 133001.

Karnataka

Monotype Corpn., Ltd., 44/45, Residency Rd., Bangalore 560025.

Photo Craft, C-30, Ind. Estate, Rajajinagar, Bangalore 560010.

South India Manufrs., Davangere 577001.

Kerala

Oriental Camera Works, North of Iron Bridge, Alleppey.
Vageeswari Camera Works, Mukkakkal, Alleppey 688001.

Maharashtra

Central Camera Works (P) Ltd., 195, Dr. D. Naoroji Rd., Bombay 400001.
Comet Ind. Corpn., Laxmi Woollen Mills Estate, Jagtap Marg, Mahalaxmi, Bombay 400011.
Kamal Process Studio, 219 B. Jayakar Marg, Bombay 400002.
Kane Trivedi & Co., Narayan Buwa Samadhi, Agra Rd., Dhulia 424001.
Lohar & Co., 27, Dhaboo St., Bombay 400003.
Lokamanya Photo Products, Byculla Club Compound, Bellasis Rd., Bombay 400008.
Photoray Ind., Bharat Coal Comp., Bail Bazar, Kurla, Bombay 400070.
Rathod Brothers, Rambaug, Vivekanand Rd., Malad (West), Bombay 400064.

Tamil Nadu

Amco Engg. Corpn., G-10 & 11, Ind. Estate, Guindy, Madras 600032.
Devi Cine Projector Mfg. Co., B-7, Ind. Estate, Guindy, Madras 600032.
Pandyan Studio, 29, Pycrofts Rd., Madras 600005.
Photo Flash & Allied Equipments, 2, Nagojeerow St., Triplicane, Madras 600005.
Press Products, 25-A, Pycrofts 1st St., Madras 600014.
Sree Venkateswar Engg. Works, 2/11, Mount Rd., Madras 600002.
Swami Radio House, Commissary Bazar, Vellore 632001.
Visual Education Aids, Old Pykara Bldg., Avanashi Rd., Coimbatore 641001.

Uttar Pradesh

Asian Electric Manufg. Co., Ganesh Bagh, Katghar Rd., Allahabad 211001.
B. L. Industries, 111/485, Harish Nagar, Kanpur 208001.
G. W. Lawrie & Co., 16, Hazratganj, Lucknow 226001.
K. B. Industries (India) Co., 50, Hazratganj, Lucknow 226001.

West Bengal

Adross (P) Ltd., Madhyamgram, 24-Parganas.
Assa Camera Co., Kolupukur Rd., Chandanagar, Hooghly.
Photo Optical Pvt. Ltd., 45/4A, Chakraberia Rd.(S), Calcutta 700025.
Venus Industries (India), 121, New Santoshpur Ave., Calcutta 700032.

PHOTO, CINE & X-RAY FILMS

Hindustan Photo Films Co. Ltd., Ootacamund 643001.

PHYSIOTHERAPHY EQUIPMENT

(See under Medical Equipment).

PIPES & FITTINGS

Continental Engg. & Construction Co., 117/C/28, Sarvodaya Nagar, Kanpur 208001.
M. J. Patel & Co. Pvt. Ltd., 116, P. D'Mello Rd., Bombay 400009.
(Also see, 'Tubes, Pipes and Fittings' in this list.)

PLASTICS

CELLULOSE ACETATE

Karnataka

Mysore Acetate & Chemicals Co. Ltd., Sri J. Wadiyar Rd., Bangalore 560002.

West Bengal

East Anglia Plastics (Ind.) Ltd., 3, Camac St., Calcutta 700016.

P.F. MOULDING POWDER/RESINS

Bakelite Hylam Ltd., Tiecicon House, 18, Dr. E. Moses Rd., Bombay 400011.
Industrial Plastics Corpn. Pvt. Ltd., 14, Hamam St., Raja Bhadur Mansion, Bombay 400001.
Rawji Amarsi, 414A, Jolly Bhavan, 10, New Marine Lines, Bombay 400020.

PLASTIC BANGLES

Gujarat

Ambika Bangle Factory, Tower Rd., P.O. Mobha, Vadodara Dist.
Jaybharat Bangle Works, 22, Goya Gate Housing Society, Vadodara 390001.
Jyoti Bangle Works. Bomlia Falia, Vadodara 390004.
Oriental Plastics, Kalyana Kunj, Pratap Nagar, Vadodara 390004.
Sarvoday Industries, Krishna Ind. Estate, Pratap Nagar Rd., Chowkhandi Market, Vadodara 390001.
Zaveri & Co., Seth Falia, Bharuch 392001.

Karnataka

Bangle Industries & Trading Co., 43-44, Balapeth, Bangalore 560001.
Mysore Bangle Works, S-80-1, Balapeth, Bangalore 560001.

Maharashtra

Ajit Bangle Works, Ashok Comp., Carter Rd., 6th Lane, Borivli (East), Bombay 400092.
Alankar Ind., Churiwadi, Goregaon (East), Bombay 400063.
Alka Industries, Padia Comp., Irani Wadi, Hemukalani Rd., Kandivli (West), Bombay 400067.
Amardeep Industries, Gamdevi Rd., Poisar, Kandivli (West), Bombay 400067.
Ambika Celluloid Industries, Simpovli, S. Vivekanad Rd., Borivli (West), Bombay 400092.
Amrit Plastics, 3rd Cross Lane, Mamlatdar Wadi, Malad (West), Bombay 400064.
Arco Bangle Works, Sonawala Estate, Goregaon (East), Bombay 400063.
Aryan Industries and Trades, Samson Comp., Goregaon (East), Bombay 400063.
Ashok Industries, Carter Rd., 6th Lane, Borivli (East), Bombay 400092.
Babli Products (I), Samson Comp., Goregaon (East), Bombay 400063.
Bakul Bangle Works, Bliss Comp., Nivetia Rd., Malad (East), Bombay 400064.
Bharat Bangle Industries, Gale-D, Kala Ind. Estate, Vishweshwar Nagar, Goregaon (East), Bombay 400063.
Blue Band Products, Pritoria Comp., Marve Rd., Malad (West), Bombay 400064.
Bombay Bangle Works, Samson Comp., Goregaon (East), Bombay 400063.
Cello Plastic Industrial Works, Churiwadi, Goregaon (East), Bombay 400063.

Celluloid Bangle Works, Vijaykar Wadi, S. Vivekanand Rd., Malad (West), Bombay 400064.

Chhaya Bangle Works, Churiwadi, Goregaon (East), Bombay 400063.

Dahyalal K. Shah, Carter Rd., 6th Lane, Borivli (East), Bombay 400092.

Delux Industries, Carter Rd., 6th Lane, Borivli (East), Bombay 400092.

Deepak Art Industries, Plot E, Sonawala Estate, Goregaon (East), Bombay 400063.

Diamond Bangles, Rambaug, S. Vivekanand Rd., Malad (West), Bombay 400064.

Diamond Industries, Kala Ind. Estate, Vishweshwar Nagar, Goregaon (East), Bombay 400063.

Dipco Products, Bliss Comp., Nivetia Rd., Malad (East), Bombay 400064.

Divya Products, 84, Vijaykar Wadi, S. Vivekanand Rd., Malad (West), Bombay 400064.

Ganesh Bangle Works, Churiwadi, Goregaon (East), Bombay 400063.

Geeta Industries, 182, Ghodbunder Rd., Goregaon (West), Bombay 400062.

Gemini Industries, 3, Goghatewadi, Goregaon (East), Bombay 400063.

General Products, Sonawala Estate, Goregaon (East), Bombay 400063.

Golden Products, Kailaspuri Hill, Govind Nagar Rd., Malad (West), Bombay 400064.

Good Luck Industries, Carter Rd., 6th Lane, Borivli (East), Bombay 400092.

Goregaon Ind. Corp., Samson Comp., Goregaon (East), Bombay 400063.

Indian Celluloid Industry, Churiwadi, Goregaon (East), Bombay 400063.

International Art Industries, Carter Rd., 6th Lane, Borivli (East), Bombay 400092.

Jay Products, Bliss Comp., Nivetia Rd., Malad (East), Bombay 400064.

Jogi Bangle Industries, Heji Bapu Rd., Nadiadwala Tabela, Malad (East), Bombay 400064.

Jyoti Industries, Interlink Ind. Estate, Caves Rd., Jogeshwari (East), Bombay 400060.

Kaj Industries, 384, Kalbadevi Rd., Bombay 400002.

Kala Kendra, Churiwadi, Goregaon (East), Bombay 400063.

Kalapi Bangles, Samson Comp., Goregaon (East), Bombay 400063.

Kamal Products, Lavji Nanji Comp., N. J. Rd., Malad (West), Bombay 400064.

Kesar Industries, Churiwadi, Goregaon (West), Bombay 400063.

Kiron Products, Savita Estate, Aarey Rd., Goregaon (East), Bombay 400063.

Kirti Bangle Industries, Churiwadi, Goregaon (East), Bombay 400063.

Kohinoor Plastics Industries, Carter Rd., 6th Lane, Borivli (East), Bombay 400092.

Krishna Bangle Works, Churiwadi, Goregaon (West), Bombay 400063.

Kundan Plastic Industries, Sainath Bldg., Gala-27, Kothar Estate, Goregaon (East), Bombay 400063.

Laxmi Bangle Industries, Carter Rd., 6th Lane, Borivli (East), Bombay 400066.

Madhu Products, Ghaswala Estate, S. Vivekanand Rd., Jogeshwari (West), Bombay 400060.

Mahavir Bangle Works, Carter Rd., 6th Lane, Borivli (East), Bombay 400066.

Maniar Art Industries 31, Interlink Ind. Estate, Caves Rd., Jogeshwari (East), Bombay 400060.

Manmohan Bangle Works, Carter, Rd., 6th Lane, Borivli (East), Bombay 400066.

Metro Bangle Works, 73-D, Govt. Ind. Estate, Kandivli (West), Bombay 400067.

Modern Bangle Works, Simpovli, S. Vivekanand Rd., Borivli (West), Bombay 400092.

Mukesh Products, Churiwadi, Goregaon (East), Bombay 400063.

Neela Plastic & Rubber Products, Sonawala Estate, Goregaon (East), Bombay 400063.

New Art Industries, Ram Baug, S. Vivekanand Rd., Malad (West), Bombay 400064.

Nityanand Bangle Works, 104/P, Gauthan Rd., Bhandarwada, Malad (West), Bombay 400064.

Nutan Art Industries, Bliss Comp., Nivetia Rd., Bombay 400064.

Pankaj Plastic Products, 139, Agarwal Ind. Estate, Jogeshwari (West), Bombay 400060.

Paras Industries, Carter Rd., 6th Lane, Borivli (East), Bombay 400066.

Parikh Bangle Works, Samson Comp., Goregaon, (East), Bombay 400063.

Pibi Industries, 29/A, Jawahar Nagar, Goregaon (West), Bombay 400062.

Prafulla Industries, 84, Vijaykar Wadi, S. Vivekanand Rd., Malad (West), Bombay 400064.

Pramod Industries, 84, Vijaykar Wadi, S. Vivekanand Rd., Malad (West), Bombay 400064.

Purnima Bangle Works, Churiwadi, Goregaon (East), Bombay 400063.

Radiant Plastics, Ram Baug, S. Vivekanand Rd., Malad (West), Bombay 400064.

Raj Bangle Industries, Block-C, Part II, Kala Ind. Estate, Goregaon (East), Bombay 400063.

Rajan Bangle Stores, 84, D'Souza St., Wadgadi, Bombay 400003.

Rajani Bangle Works, C/o Sapna Industries, 182, S. Vivekanand Rd., Near Jawahar Vidyalaya, Goregaon (West), Bombay, 400062.

Ramesh Bangle Works, Carter Rd., 6th Lane, Borivli (East), Bombay 400066.

Rocket Art Industries, Vijay Kailas Ind. Estate, Sonawala Estate, Goregaon (East), Bombay 400063.

Roopkala Industries, Karachiwala Chawl, Opp. Mission Hospital, Dahanu Rd., Thana (Dist.).

Ruby Products, Ashok Nagar, Kandivli (East), Bombay 400067.

Sadhana Industries, Carter Rd., 5th Lane, Borivli (East), Bombay 400092.

Saraswati Bangle Works, Churiwadi, Goregaon (East), Bombay 400063.

Sarvoday Bangle Works, Adarsh Comp., Marve Rd., Malad (West), Bombay 400064.

Sawani Industries, Plot E, Shed 5, Sonawala Estate, Goregaon (East), Bombay 400063.

Shakti Vacuum Products, Nagindas Chambers, 167, P. D'Mello Rd., Bombay 400001.

Sharda Industries, Churiwadi, Goregaon (East), Bombay 400063.

Shree Bangles, Deepak Bldg., Santacruz (East), Bombay 400055.

Sohag Kangan Manufg., 161, B. Khote Street, Bombay 400003.

Star Products, S. Vivekanand Rd., Borivli (West), Bombay 400092.

Suman Industries, Simpson Comp., Goregaon (East), Bombay 400063.

Suresh Bangle Works, Carter Rd., 6th Lane, Borivli (East), Bombay 400066.

Tarun Bangle Industries, Churiwadi, Goregaon (East), Bombay 400063.

Teeka Industries, 84, Vijaykarwadi, S. Vivekanand Rd., Malad (West), Bombay 400064.

United Export Corpn., Sham Bhavan, 2nd Kasturba Rd., Borivli (East), Bombay 400092.

Universal Bangle Works, Churiwadi, Goregaon (East), Bombay 400063.

Usha Products, Simpson Comp., Goregaon (East), Bombay 400063.

PLASTIC BLOW MOULDING

Bihar

R. B. Plastic & Metal Ind., P.O. Jharia, Dhanbad 826001.

Delhi

B. K. Plastic Pvt. Ltd., A207, Defence Colony, New Delhi 110003.

Maidan Brothers, 277, Sadar Bazar 110006.

Gujarat

Elite Plastic Co., 12A, Bharatkhand Cotton Mills Comp., Naroda Rd., Ahmedabad 380001.

Gujarat State Fertilizer Co. Ltd., P.O. Fertilizernagar, Vadodara Dist.

Hindustan Polythene & Plastic Works, Ind. Area, Yamuna Mill Rd., Vadodara 390004.

Vora Plastics Manufg. Co., Vora Baug, Ghuntu Rd., P.B. 54, Morvi.

Kerala

Modern Plastic Ind., Neerkunnam, Alleppey 688005.

Maharashtra

Apte Plastic Ind., 475-18, Sardar Bazar, Satara Camp. 415001.

Arun Plastics, 74A, Govt. Kandivli Ind. Estate, M. Gandhi Rd., Kandivli West, Bombay 400067.

Blow Plast Pvt. Ltd., Gauthan Rd., Off. Bombay-Agra Rd., Bhandup, Bombay 400078.

Everest Plastic Ind., 13/21, 3rd Panjrapole Lane, Bombay 400004.

Garware Plastics Pvt. Ltd., 135, Dr. A. Besant Rd., Worli, Bombay 400018.

General Plastics, 8, Tamarind Lane, Bombay 400001.

Indian Plastics Ltd., Poisar Bridge, Ghodbunder Rd., Kandivli, Bombay 400067.

Industrial Tube Container Manufg. Co., C/o Rainbow Products, Ind. Assurance Bldg., Churchgate, Bombay 400020.

Irrawady Bandhu Ind. Corpn., 259, Kalbadevi Rd., Bombay 400002.

Jay Chemicals, 334, Narsi Natha St., Bombay 400002.

Jay Kaushal Plastic Ind. Pvt. Ltd., 31, Sutar Chawl, Bombay 400002.

Kalpana Plastic Ind., 20/3, Hadapsar Ind. Estate, Pune 411013.

Kosmek Plastic Manufg., Ltd., Old B.P.T. Rd., Mahul, Chembur, Bombay 400074.

Model Containers, C/o H. P. Shah & Company, 689, Govind Chowk, M. J. Market, Bombay 400002.

Modern Containers Pvt. Ltd., 94-A, Miramar, 3, Nepean Sea Rd., Bombay 400026.

PVD Plast Mould Ind., 43, Forbes St., Bombay 400001.

Shree Kailash Texplabo Ind. & Agencies Pvt. Ltd., Prabhadevi Ind. Estate, Cadell Rd., Bombay 400025.

Sunlight Plastic Ind., 324, A to Z Ind. Estate, Fergusson Rd., Lower Parel, Bombay 400013.

Vikas Co-op. Producers Society Ltd., Kachwadi, Govandi, Bombay 400071.

Vinod Plastic Works, 248, 252, A. Rehman St., Bandukwala's Bldg., Bombay 400003.

Warden & Co. Pvt. Ltd., Quay St., Mazagaon, Bombay 400010.

Tamil Nadu

Nirmala Plastic Works, 170/2, S. C. Bose Rd., Madras 600001.

Polyene General Ind., Unit 11A, Ind. Estate, Guindy, Madras 600032.

Uttar Pradesh

Lari Ind., Iqbal Manzil, Near City Station, Lucknow 226001.

West Bengal

Ever Bright Plastic Works, 10/1, Portuguese Church St., Calcutta 700001.

Indar Plastic Works, 56/1, Canning St., Calcutta 700001.

Radheshyam Plastic Ind., 65-A, Nimtollaghat St., Calcutta 700006.

PLASTIC CANE & ROPES

Hyderabad Polythylene Indus., 5/4/383, Mukramjan i Rd., Hyderabad 500001.

Indar Plastic Works, 56/1, Canning St., Calcutta 700001.

Maharashtra Plastic Industries, Subhas Nagar, Off Caves Rd., Jogeshwari East, Bombay 400060.

Polymers (I) Pvt. Ltd., 10, Mall Rd., Dum Dum, Calcutta 700028.

Ravish Synthetic Twines & Ropes Pvt. Ltd., B-70, Ind. Estate, Rajajinagar, Bangalore 560044.

PLASTIC COMPRESSION MOULDING

Delhi

Globe Products (India), 24, Friends Colony, G. Trunk Rd., Shahadara 110032.

Gujarat

Alembic Chemical Works Co. Ltd., Vadodara 390003.

Hemant Bros., Super Market, Ashram Rd., Ahmedabad 380009.

Plastic Products Engg. Co., 'Lavanya', Behind Ahmedabad Medical Association Hall, Ahmedabad 380009.

Haryana

Nuchem Plastics Ltd., 54, Ind. Estate, Faridabad 121001.

Karnataka

Associated Trdg. Corpn., 48/4, Sri Jayachamarajendra Rd., Bangalore 560002.

Maharashtra

Barakaso Pvt. Ltd., Ishwarbhai Patel Rd., Goregaon East, Bombay 400063.

Baroda General Ind., Ram Baug, S. Vivekanand Rd., Malad, Bombay 400064.

Cipra Bakelite Co., Rout Wadi, Moghul Lane, Mahim, Bombay 400016.

Daylight Plastic Ind., 45, Suryodaya Mills Comp., Tardeo, Bombay 400034.
Ellora Art Ind., Shreejee Bhuvan, Lohar Chawl, Bombay 400002.
Imperial Ind. Co., Opp. Sitaladevi Temple, L. Jamshedji Rd., Mahim, Bombay 400016.
Merchant & Co. Pvt. Ltd., C/o Janata Works Comp., Opp. Phoenix Mills, Tulsi Pipe Rd. (South), Lower Parel, Bombay 400013.
Milan Products, 64-D, Govt. Ind. Estate, Kandivli, Bombay 400067.
P. S. Banarse India Pvt. Ltd., Badnera, Amravati.
Plastella, 91, S. Vivekanand Rd., Borivli, Bombay 400092.
Podar Plastics Pvt. Ltd., Podar Chambers, Parsee Bazar St., Bombay 400001.
Polymer Products Co., Saki Vihar Lake Rd., Bombay 400072.
Polypick Ind., Bombay Mutual Bldg., Dr. D. Naoroji Rd., Bombay 400001.
Polyset Corpn., Plot No. A-44-45, M.I.D.C., Marol Ind. Estate, Mahakali Caves Rd., Andheri (East), Bombay 400069.
Priesto Ind., 106, Kansara Chawl, Kalbadevi Rd., Bombay 400002.
Priest-O-Lite, Ghodbunder Rd., Opp. Bandra Bus Garage Santa Cruz, Bombay 400054.
Sputnik Ind., 30, Tejpal Rd., Vile Parle East, Bombay 400057.
Walchandnagar Ind. Ltd., Construction House, Ballard Estate, Bombay 400038.

Punjab

Ram Kay Engg. Co. Pvt. Ltd., P.B. 3, Kapurthala 144601.

Tamil Nadu

Plasticraft Ind., Velachery Rd., Madras 600042.
Praga Ind. Pvt. Ltd., Avanashi Rd., Coimbatore 641001.
Sri Lakshmana Plastic Works, 14, Nanjikottai Rd., Thanjavur 613001.

Uttar Pradesh

Plastics Products Ltd., Kamala Tower, Kanpur 208001.

West Bengal

Assam Produce Co. Pvt. Ltd., 4, India Exchange Place, Calcutta 700001.
Eastern Traders (Agencies), 3, Chittaranjan Ave., Calcutta 700013.
Orient Plastic Ind., 12, Portuguese Church St., Calcutta 700001.
Plastics Corpn., 114, Princep St., Calcutta 700013.
Universal Moulders, 4, Canal Rd., New Alipore, Calcutta 700053.

PLASTIC ELECTRICAL ACCESSORIES

Delhi

Rexco Ind. (India), Expo Plastics, G-35, Gulabi Baghi, Delhi 110007.

Maharashtra

Automate Engineers, T. K. Ind. Estate, King Edward Rd., Bombay 400015.
Merchant & Co. Pvt. Ltd., 162, Tulsi Pipe Rd. South, Lower Parel, Bombay 400013.
Standard Batteries Ltd., Vakola, Santa Cruz, Bombay 400055.

PLASTIC EXTRUSION

Andhra Pradesh

Hyderabad Polyethylene Ind., 5/4/383, Mukramjani Rd., Hyderabad 500001.
Indian Detonators Ltd., Sanatnagar, P.O. Hyderabad 500018.

Gujarat

Dentron Plastic Ind., Gujarat Laghu Udyog Vikas Mandal, Shamapur Gate, Ahmedabad 380001.
D. R. Industries, Swaminarayan Godown, Outside Dariapur Gate, Ahmedabad 380001.
Hindustan Polythene & Plastic Works, Yamuna Mill Rd., Vadodara 390004.
Modern Plastics Corpn., 4/4488, Begampura, Surat 395001.
Monalax Plastics, Sabhir House, Near Hajoori Soda Factory, Salabalgoura, Surat 395002.
Sackfil Corpn. of India, 24, Nadiad Ind. Area, Nadiad, 387001.
Unick Plastics Ind., Plot No. 2/A/2/3, Udhna Ind. Estate, Udhna, Surat Dist.

Karnataka

D. M. Industries, Morzaria Ind. Estate, 4, Banarghatta Rd., Bangalore 560029.
F. Fibre Corpn., A-83, Ind. Estate, Rajajinagar, Bangalore 560010.
Jambo Plastics Pvt. Ltd., M. S. Ramaiah College Comp., Gokul, Bangalore 560012.
Multiplat Ind. Corpn., P.B. 10, Hospet 583201.
Pal's Ind. Corpn., Lake View, Karkala, South Kanara.
Polytech International, P.O. Dhenkanal.
Sree Prakash Plastic Ind., Krishnarajendra Rd., P.B. 66, Devangere 577001.
Vinayak Ind. Corpn., 11-655, Bhavanthi St., Mangalore 575001.

Kerala

Kumar Ind., Sree Devi, Kottumukku, Quilon 691001.
Phoenix Plastics, Kottayam 686001.

Maharashtra

Airoplast Private Ltd., C/40, 'Y' Rd., Wagle Ind. Estate, Thana 400604.
Ashok Plastics Ind., Shed No. 12, Ind. Estate, Dhulia 424001.
Atom Plast, "Bhavna", 422, V. Savarkar Rd., Bombay 400025.
Bombay Synthetic Corpn., Govt. Ind. Estate, Plot No. 81, Kandivli West, Bombay 400067.
Chemo Plastics, 14, 'Sailesh', 59/75, Forjett St., Bombay 400026.
Crown Plastic Ind., Aghadi Ind. Estate, M. Maroshi Rd., Andheri, Bombay 400059.
Dhoot Chemo Plast Pvt. Ltd., Kranti Chowk, Aurangabad 431001.
Drossbach, Maneklal Pvt. Ltd., Vaswani Mansions, D. Vachha Rd., Bombay 400020.
Eagle Enterprises Pvt. Ltd., 141, S. Devjee St., Bombay 400003.
Everest Enterprises, 226, Kalbadevi Rd., Bombay 400002.
Everest Plastic Ind., 13/21, 3rd Panjrapole Lane, Bombay 400004.
F. Block Agencies Pvt. Ltd., Shale Bldg., Bank St., Bombay 400001.

Fivevex Plastic Ind., Marathe Kolsawadi, Kalyan, Thana Dist.

Ganesh Ind., 32/34, 1st Marine St., Bombay 400002.

Glosso Pack Ind., Laxmi Woollen Mills Comp., B. Jagtap Rd., Bombay 400011.

Great India Plastics, I.B. Patel's Estate, I. Patel Rd., Goregaon East, Bombay 400062.

Jay-Kee Plastics, C/o Kakad Ind. Estate, L. Jamshedji Rd., Mahim, Bombay 400016.

Khetan Plastics, P.B. 25, Akola 444001.

Maharashtra Plastic Ind., 312, Kalbadevi Rd., Bombay 400002.

M. B. Ind. Pvt. Ltd., S. Vivekanand Rd., Villa Mira, Post Ghodbunder, Thana Dist.

Modern Waterproof Manufg. Co., 109, Masjid Bunder Rd., Bombay 400003.

New Pack Ind., Mirabelle Hotel, Lotus House, Bombay 400001.

Nova Plast Ind. Pvt. Ltd., Shree Laxmi Silk Mills Premises, M. C. Javla Rd., Bombay 400028.

Nylo Plast Ind. Pvt. Ltd., Nyloc House, 254-D2, Dr. A. Besant Rd., Prabhadevi, Bombay 400025.

Plasticable Pvt. Ltd., Lentin Chambers, 36, Dalal St., Bombay 400001.

Plastic Extrusion Products, M.I.D.C. Ind. Estate, Plot No. 16/17, II Cross Rd., J. B. Nagar, Bombay 400059.

Plastics Estruders Pvt. Ltd., National Insurance Bldg., Dr. D. Naoroji Rd., Bombay 400001.

Plastoflex Ind., 46, Nagdevi St., Bombay 400003.

Plasto-Pack Ind., 5-B, Suryodaya Mills Comp., Tardeo, Bombay 400034.

Polymers & Resins Corpn., 46, V. Nariman Rd., Opp. Akbarally's, Bombay 400001.

Precision Engg. & Sales Corpn., Mahalaxmi Ind. Estate, Drainage Channel Rd., Parel, Bombay 400013.

Ramdas Plastic Manufg. Co. Pvt. Ltd., 111/128, Sadhu Vaswani Nagar, Ganeshkhind Rd., Pune 411007.

Ranbhare Plastic Ind., C/o 9, Parishram, Dr. Gandhi Rd., Parsi Colony, Dadar, Bombay 400014.

Rarun Plastics, 23-B, Raja Bahadur Mansion, Hamam St., Bombay 400001.

Samip Packaging Ind., 10, Milan, Dixit Rd., Vile Parle East, Bombay 400057.

Sohal Plastics, Sohal Ind. Estate, Agra Rd., Bhandup, Bombay 400078.

Sylvex Cable Company Pvt. Ltd., Behind India Cork Mills, Saki-Vihar Rd., Bombay 400070.

Thermo-Plastic Ind., 78, Kalachowki Rd., Lalbaug, Bombay 400033.

Vishal Plastic Ind., 6, Mirza St., Bombay 400003.

Tamil Nadu

Devon Plastics, Dhun Bldg., 175/1, Mount Rd., Madras 600002.

Paper, Film & Foil Converters, P.B. 6, Sivakasi, Ramnad Dist. 623501.

Uttar Pradesh

Garg Plastics, 47/86, Hatia, Kanpur 208001.

West Bengal

Extrusion, 243, Chittaranjan Ave. Calcutta 700012.

India Burlap & Laminating Works, 8, Lyons Range, Calcutta 700001.

Polyfabs Ltd., 2, Pretoria St., Calcutta 700016.

Transpacker's, Flat No. 401, 'Niharika', 17/1C, Alipore Rd., Calcutta 700027.

PLASTIC FABRICATION

Maharashtra

Amalgamated Apparels, 28/29, Ideal Ind. Estate, Mathuradas Mills Compound, Delisle Rd., Lower Parel, Bombay 400013.

Amar Plastic Ind., 43, Queen's Rd., Bombay 400002.

Arteo Products, 2/2, Dwarkanath Bhuvan, Katrak Rd., Wadala, Bombay 400031.

Bombay Plastic Corpn., Elphinstone Bldg., 10, Churchgate St., Bombay 400001.

Bright Bros. Pvt. Ltd., 156A, J. Dadjee Rd., Bombay 400034.

Deepak Knitting Works, Bombay Cotton Mills Estate, Parel Tank Rd., Bombay 400033.

Jagdhir Desai & Co., 13, Gunbow St., Bombay 400001.

Jyoti Plastic Works, Bombay Talkies Comp., Hemansu Rd., Malad West, Bombay 400064.

Noble Plastic Works, 22, N. Shenoy Rd., Bombay 400001.

Oriental Manufg. Co., 94, 3rd Bhoiwada, Bombay 400002.

Plasticraft Corpn., B. Vastu Rd., Vile Parle West, Bombay 400056.

Podar Plastics Pvt. Ltd., Podar Chambers, Parsee Bazar St., Bombay 400001.

Prabhat Bangle Works, Kakadwadi, Girgaum, Bombay 400004.

Premier Leather Krafts, 35-37, Hamam St., Bombay 400001.

Sanghvi Non-ferrous Metal Ind., 159/2, Akurdi, Chinchwad, Pune 411019.

Vasa Optical Ind., Ind. Estate, Sangli 416416.

Venus Prints, 22-D, Parsi Bazar St., Bombay 400001.

PLASTIC FOAM

Andhra Pradesh

U. Foam Pvt. Ltd., 815 & 16, Ind. Estate, Sanatnagar, Hyderabad 500018.

Maharashtra

Artbangle Pvt. Ltd., 204, National Insurance Bldg., Dr. D. Naoroji Rd., Bombay 400001.

BASF Ind. Ltd., Tiecicon House, Dr. E. Moses Rd., Bombay 400011.

PLASTIC GOODS

Delhi

Pearl Polymers Pvt. Ltd., 27-A, Najafgarh Rd., New Delhi 110015.

Plastic House, 255, Ballimaran St., Delhi 110006.

S. Mohd. Suabheen & Co., 824, Ballimaran St., Delhi 110006.

Gujarat

Anjna Ind. Corpn., Bharat Bobbins Premises, Opp., Ajit Mills Ltd., Rakhial Rd., Ahmedabad 380023.

Bharat Plastic & Bakelite Ind. Ltd., Krishnagar Housing Rd., Saijpur Bogha, Ahmedabad 380002.

Parag Plastics Ind. Pvt. Ltd., 80, Makarpura Ind. Estate, P.B. No. 199, Vadodara 390009.

Maharashtra

Billion Plastics Pvt. Ltd., 101, Himalaya House, Palton Rd., Bombay 400001.

Brahma Bharati Udyog, Green House, Green St., Bombay 400001.

Bright Bros. Pvt. Ltd., 156-A, J. Dadajee Rd., Bombay 400034.

General Plastics, Calicut House, 8, Tamarind St., Bombay 400001.

BRIGHT BROTHERS PVT. LIMITED

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Chairman & Managing Director :
T. W. Bhojwani.

Subh Plastics, 4/5B, New Empire Ind. Est., Kondivita Rd., J. B. Nagar, Bombay 400059.

Orissa

Sibco Ind. Pvt. Ltd., C-11, Ind. Estate, Cuttack 753003.

Tamil Nadu

Deluxe Plastics Products, 6B, N. M. Mudaliar Rd., Madras 600029.

Electro Plastic Combination, 65, N. M. Mudaliar Rd., Madras 600029.

Plastic Glass Enterprises, 15, Tatabad, 9th St., P.O. Tatabad, Coimbatore 611012.

West Bengal

Climax Plastic Udyog, 11, Pollock St., Calcutta 700001.

Delton Steel & Metal Ind., P-2, Dalimtola Lane, Calcutta 700006.

Emco Gen. Ind., 44A, R. A. Kidwai Rd., Calcutta 700016.

High Volt Equipment Pvt. Ltd., Premier House, P-39, Mission Row Extn., Calcutta 700013.

Indar Plastic Works, 56/1, Canning St., Calcutta 700001.

Monoplast Co., 60/2, Dharamtolla St., Calcutta 700013.

Peerless Plastics Ind. Pvt. Ltd., 4, Upper Chitpur Rd., Calcutta 700007.

Plastics Enterprises, 38, Strand Rd., Calcutta 700001.

Plasto (Ind.) Pvt. Ltd., Patipukur, Dum Dum (South), Calcutta 700055.

Polymers (India) Pvt. Ltd., 10, Mall Rd., Dum Dum, Calcutta 700028.

Ratan Plastics Pvt. Ltd., 43/1, Strand Rd., Calcutta 700007.

Synthetic Moulders Ltd., 16, N. Subash Rd., Calcutta 700001.

Techno Rubber & Plastic Works, 14, Chandni Chowk St., Calcutta 700001.

PLASTIC HOSES

Billion Plastics Pvt. Ltd., 101, Himalaya House, Palton Rd., Bombay 400001.

PLASTIC INJECTION MOULDING

Andhra Pradesh

Plastic Engg. Components Pvt. Ltd., D/8-9, Govt. Ind. Estate, Moula Ali, Hyderabad 500040.

Delhi

Aarcee Plastic & Metal Ind. Pvt. Ltd., Flat 21-A, Shanker Market, Connaught Circus, New Delhi 110001.

Bright Distributors, Swadeshi Market, Sadar Bazar, Delhi 110006.

Dalton Cable Ind. Pvt. Ltd., Dalton House, 24, Daryaganj, Bharatram Rd., Delhi 110006.

Fancy Plastic Moulders, 4998, Mandi Rui, Sadar Bazar, Delhi 110006.

Jewel Plastics, 9986, Sarai Rohilla, New Rohtak Rd., New Delhi.

Universal Advertisers, 4, Jamna Bhawan, Asafali Rd., New Delhi 110001.

Gujarat

Hindustan Polythene & Plastic Works, Ind. Area, Yamuna Mill Rd., Vadodara, 390004.

Kaj Ind., Plastic House, Udyognagar, Udhna.

Ranco Plastics, 'Shrinath Prasad', Takhteswar Plots, Bhavnagar 364001.

Karnataka

Karnatak Bangle Works, 4/3, Platform Rd., Seshadripuram, Bangalore 560020.

Kaveri Plastic Pvt. Ltd., Morzaria Ind. Estate, Unit F, Shed No. 2, 4, Bannerghatta Rd., Bangalore 560029.

Precision Engineers, Duravaninagar, Bangalore 560016.

Quality Metal Works, Keshavapura, Hubli 580023.

Kerala

Anand Water Meter Manufrs. Co., M. Gandhi Rd., Post Box No. 1077, Ernakulam, Cochin 682001.

Common Facility Service Centre, Ind. Estate, Chenganacherry 686104.

Madhya Pradesh

Acrocast, F9, Ind. Estate, Polo Ground, Indore 452003.

Ahuja Ind. Co., G. E. Rd., Opp. D. K. Hospital, Raipur 492001.

Jai Plastic Ind., 4-A, Ind. Estate, Raipur 492001.

Maharashtra

Acme Plastics Ind., Chandivalli Farm, Chandivalli Rd., Bombay 400072.

Amartara Plastics Pvt. Ltd., Saki Vihar Rd., Bombay 400072.

Anand Plastics, 244, Bellasis Rd., Opp. Alexandra Cinema, Bombay 400008.

Anant Shridhar, 7, Lokamanya Nagar, Mahim, Bombay 400016.

Arora Plastics, Prabhadevi Ind. Estate, Unit No. 20, 1st Fl., Vir Savarkar Rd., Bombay 400026.

Ashok Plastics, 67, Ideal Ind. Estate, Mathuradas Mills Comp., Lower Parel, Bombay 400013.

Bata Shoe Co., Pvt. Ltd., Sandak Div., P.B. 84, Thana 400601.

Bharat Swiss Footwear Co. Pvt. Ltd., Merchant Chambers, 41, New Marine Lines, Bombay 400020.

Bien Plastics, Paragon Textile Mills Comp., Globe Mills Passage, Worli, Bombay 400018.
Bombay Brush Co. Pvt. Ltd., 493F, Arthur Rd., Ghaswala Estate, Off Tardeo Circle, Bombay 400034.
Central Plastics, No. 4, Ghodbunder Rd., Indian Crucible Comp., Malad, Bombay 400064.
Comet Corpn., 446, S. V. Patel Rd., Seksaria Bldg., Bombay 400004.
Dwarkadas Dahyabhai Maniar, 71, 3rd Bhoiwada, Bombay 400002.
Emerald Plastics, Mor Bunglow, Tejpal Rd., Bombay 400057.
Everest Plastic Ind., 'Arun', N. Dabholkar Rd., Malabar Hill, Bombay 400006.
Exen Ind., Parekh Nagar, Ghodbunder Rd., Kandivli (B.S.D.), Bombay 400067.
Flexcord Corpn., 266, Dr. A. Besant Rd., M. U. Garage Bldg., Prabhadevi, Bombay 400025.
Formacators, 20, Evergreen Ind. Estate, Dr. E. Moses Rd., 2nd Fl., Mahalakshmi, Bombay 400011.
Ganesh Ind. Pvt. Ltd., Lalji Mansingh Bldg., Lohar Chawl, Bombay 400001.
Gemini Plastic Ind., 3-A, Krishna Udyog Bhuvan, Dhuruwadi, Near Bengal Chemicals, Bombay 400025.
Golden Plastics, 67-69, Bazargate St., Bombay 400001.
Gujarat Ind. Pvt. Ltd., Lalji Mansingh Bldg., Lohar Chawl, Bombay 400002.
Harrison & Co., 23/25, Paradise Lane, L. Jamshedji Rd., Mahim, Bombay 400016.
Hemu Plastics, Unit No. 31, Sona Udyog Estate, Parsi Panchayat Rd., Andheri East, Bombay 400069.
Hindustan Plastic & Metal Manufg. Co., 40-C, Clerk Rd., Jacob Circle, Bombay 400011.
Indian Plastics, 118, Wadala Udyog Bhavan, 8, Naigaum Cross Rd., Wadala, Bombay 400031.
J. L. Morison, Son & Jones (I) Ltd., 79, Dr. A. Besant Rd., Worli, Bombay 400018.
Jaggy & Co., Bombay Agra Rd., Bhandup, Bombay 400078.
Jaisingh Plastics Ind., 3rd Bhoiwada, Bhuleshwar, Bombay 400002.
Jamsar Engg. Works, Laxmi Woollen Mills Estate, Haines Rd., Mahalaxmi, Bombay 400011.
Jaybee Plastic Works, Ebrahim Mansion, 366-68, Kalbadevi Rd., Bombay 400002.
Jayesh Plastics, 112 A-B, Govt. Ind. Estate, Kandivli, Bombay 400067.
Jolly Plastics, 4 & 28, Naigaum Cross Rd., Wadala Udyog Bhavan, Bombay 400031.
Jyoti Plastic & Allied Ind., Plot No. 49, A/B, Govt. Ind. Estate, Bombay 400067.
Khushaldas Dipchand, 30, 2nd Bhoiwada, Bombay 400002.
Kings Plastics, Block No. 7, Devkaran Mansion, 34, Vithaldas Rd., Bombay 400002.
K. K. Nag Pvt. Ltd., 2/362, Bund Garden Rd., Pune 411001.
Krishna Plastics, 139, Nagindas Master Rd., Bombay 400001.
Light Engg. Service, Madhani Estate, 542, Tulsi Pipe Rd., Dadar, Bombay 400028.
M. K. Plastics Ind., 112, Kakad Ind. Estate, Bombay 400016.
Madhusudan Ltd., Plastics Division, Kurla-Andheri Rd., Bombay 400072.
Maniar Art Ind., 31, Interlink Ind. Estate, Caves Rd., Jogeshwari East, Bombay 400060.
Maniar Plastics Ind., 63, 3rd Bhoiwada, Bombay 400002.
Meenul Metallizing Pvt. Ltd., 1076, Haines Rd., Worli, Bombay 400018.
Mhatre Pen & Plastic Ind. Pvt. Ltd., Tulsi Pipe Rd., Dadar, Bombay 400028.
Motco Plastics, 13-B, Kurla Ind. Estate, Agra Rd., Ghatkopar, Bombay 400077.
Nanavati Plastics Corpn., Divn. of Dynamic Plastic Pvt. Ltd., 91, Tejpal Rd., Vile Parle East, Bombay 400057.
National Plastic Ind., 40, Mirchi Galli, Opp. Jamma Masjid, Bombay 400002.
Overseas Plastics Moulders, Sadhana Ind. Estate, Oshivara Bridge, Jogeshwari, Bombay 400060.
P. S. Plastic Ind., 36, Sarang St., Bombay 400003.
Perfect Plastics, Seksaria Chambers, 139, Medows St., Bombay 400001.
Phiroze Sethana Ind., Royal Insurance Bldg., 14, J. Tata Road, Bombay 400020.
Pla-Age Ind., 30, Carnac Bunder, Bombay 400009.
Plastic & Machine Manufg. Co., 2-3, Interlink Ind. Estate, Caves Rd., Jogeshwari East, Bombay 400060.
Plastic Products, A1 & 2, Nardhan Ind. Estate, M. Maroshi Rd., Andheri East, Bombay 400059.
Plastica, 94, Vithalwadi, Kalbadevi Rd., Bombay 400002.
Plastico Ind., 116, Sarang St., Akhokha Bazar, Bombay 400003.
Plastics Converters, National House, 6 Tulloch Rd., Bombay 400001.
Prem Plastics, 301, Bharat Ind. Estate, T. Jivraj Rd., Sewree, Bombay 400015.
Premier Ind. Works, 42, Taikalwadi Lane, Off L. Jamshedji Rd., Mahim, Bombay 400016.
Rainbow Products, Ind. Assurance Bldg., Churchgate, Bombay 400020.
Rajpal Plastics Ind., 303, Neelkanth, 98, Marine Drive, Bombay 400002.
Rockre Corpn., Shivaji Colony, Pereira Hill Rd., Andheri East, Bombay 400069.
Ruby Products, Ashoknagar, Kandivli East, Bombay 400067.
Sakti Vacuum Products, 167, P. D'Mello Rd., Bombay 400001.
Simac Group (I) Pvt. Ltd., Plot No. B-72, Rd. No. 33, W.I. Estate, Thana 400604.
Standard Plastics Co., Udyog Mandir, Kurla Andheri Rd., Bombay 400072.
Subodh Chrome Plastic, 371, Raviwar Peth, Pune 411002.
Supreme Ind. Ltd., Sewree Cross Rd., Wadala, Bombay 400031.
Sunderdas Nemidas, 233-B, A. Rehman St., Bombay 400003.
Swastik Ind., Ram Baug, Ghodbunder Rd., Malad, Bombay 400064.
Thakkar Ind. (I), 144, Dharavi Rd., Bombay 400017.
Trinity Plastics, 238, Nagdevi St., Bombay 400003.
United Enterprises, 340/341, A to Z Ind. Estate, Fergusson Rd., Bombay 400013.
V. K. Engg. & Plastics Ind., Western India House, Sir P. Mehta Rd., Bombay 400001.
Vijay Bakelite Trdg. Co., 8, Chakla St., Bombay 400003.
Vinal Ind., 23, Sidhpura Ind. Estate, S. Vivekanand Rd., Goregaon, Bombay 400062.

Orissa

Orissa Plastics, P.O. Balasore 756001.

Tamil Nadu

Bhupendra Plastic Ind., 20, Singara Garden Third Rd., Washermanpet, Madras, 600021.

Govel Plastics Pvt. Ltd., 5/9, Veerabhadraier St., Nungambakkam, Madras 600034.

Indian Polythene Ind., 17, Pamanan Rd., Madras 600001.

Lakmur Plastics, Homoeo House, Kumbakonam 612001.

Needle Ind. India Ltd., Ketti, The Nilgiris.

U.M.S. Radio Factory, Avanashi Rd., Coimbatore 641018.

Uttar Pradesh

Bihani Ind., 9, Lowther Rd., Darbhanga Colony, Allahabad 211001.

West Bengal

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Mahabir Plastic Ind., 6, Canal Rd., New Alipore, Calcutta 700033.

Pioneer Plastic Works Pvt. Ltd., 9, Ezra St., Calcutta 700001.

Plastic Mouldings & Allied Ind., 135, Park St., Calcutta 700017.

Pradip Plastic Moulders, 12-B, Rabindra Sarani, North Block, Calcutta 700001.

Synthetic Moulders Ltd., 43, N. Subash Rd., Calcutta 700001.

Western Plastics Co., 9, Gurusaday Rd., Calcutta 700019.

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Caprihans (I.) Pvt. Ltd., Block 'D', Shivsagar Estate, Dr. A. Besant Rd., Bombay 400018.

Formica India Ltd., P.B. 64, Pune 411001.

Industrial Fabrics Pvt. Ltd., 95, A. Rehman St., Bombay 400003.

Plasticage Corpn., 101, Mithal Estate, Andheri Kurla Rd., Bombay 400059.

Svadeshi Mill Co. Ltd., Bombay House, Bruce St., Bombay 400001.

PLASTIC LEATHER CLOTH

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Neo Poly Pack Pvt. Ltd., E-2, Greater Kailash, New Delhi 110048.

Karnataka

Varma Ind. Ltd., Dombur Rd., P.O. HAL, Bangalore 560017.

Maharashtra

Billion Plastics Pvt. Ltd., 101, Himalaya House, Palton Rd., Bombay 400001.

Caprihans (India) Pvt. Ltd., Block-D, Shivsagar Estate, Dr. A. Besant Rd., Worli, Bombay 400018.

Dharampur Leather Cloth Co. Pvt. Ltd., 10, Chowpatty Sea Face, Opp. Tilak Statue, Bombay 400007.

Ellora Ind., 15, Tulsi Niwas, 61D Rd., Churchgate, Bombay 400001.

Jasmine Mills Pvt. Ltd., Dharavi, Bombay 400017.

Jyoti Ind., Udyognagar, S. Vivekanand Rd., Goregaon West, Bombay 400062.

Mamaji Ind. Corpn., Sir I. Rahimtulla Rd., Bombay 400002.

National Leather Cloth Manufg. Co., Ram Krupa Bldg., 25, Parekh St., Bombay 400004.

Polytex Ind, 5, Kurla Ind. Estate, L. B. Shastri Rd., Ghatkopar, Bombay 400086.

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West Bengal

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Boolani Engg. Corpn., Prabhadevi Ind. Estate, 402 V. Savarkar Marg, Bombay 400025.

Brimco Plastic Machinery Corpn., 55, Govt. Ind. Estate, Charkop, Kandivli West, Bombay 400067.

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Kril Standard Products Pvt. Ltd., 506, Sir Vithaldas Chambers, 16, Apollo St., Bombay 400001.

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Remica Plastic Machinery Manufrs., Dudheshwar Rd., Ahmedabad 380001.

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Universal Mechanical Works Pvt. Ltd., off Fergusson Rd., opp B.D.D. Chawl No. 114, Bombay 400018.

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Maharashtra

Boolani Engg. Corpn., Prabhadevi Ind. Estate, 402, V. Savarkar Rd., Bombay 400025.

Eastern Sales Corpn., Unique House, 25, Parsee Bazar St., Bombay 400001.

Kalimata Plastic Ind., 205, Wadala Udyog Bhuvan, Naigaum Cross Rd., Wadala, Bombay 400031.

Kolsite Ind., Meher Tiles Comp., Subhas Nagar, Off Caves Rd., Jogeshwari East, Bombay 400060.

Kril Standard Products Pvt. Ltd., Prabhadevi Ind. Estate, Block No. 8, 402, V. Savarkar Marg, Bombay 400025.

Niranjan Plastics, 19/7, Botawala Bldg., S.D.T. Rd., Bombay 400016.

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Sheth & Sheth Ind., Janmabhoomi Chambers, Fort St., Ballard Estate, Bombay 400038.

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Chanson Plastic Manufg. Co., 1/13, West Patel Nagar, New Delhi 110008.

Gujarat

Toff-O-Plast, 20, R. C. Patel Ind. Estate, Akota Rd., Vadodara, 390005.

Karnataka

Paxal Corpn., No. 13, Sri Krishnarajendra Rd., Fort, Bangalore 560002.

Tip-top Plastic Ind., 124, Kallai Rd., Balepet, Bangalore 560002.

Maharashtra

Bharat Pen & Plastic Ind., 66-B, Ruby Mill Lane, Dadar, Bombay 400028.
Bright Brothers Pvt. Ltd., 156-A, J. Dadajee Rd., Bombay 400034.
Chhogmal Plastic Enterprise, 63, 3rd Bhoiwada, Bombay 400002.
Hemu Plastics, Unit No. 31, Sona Udyog Estate, Parsi Panchayat Rd., Andheri East, Bombay 400069.
S. L. Trading Co., 236A, Maulana Azad Rd., Bombay 400008.

West Bengal

Asian Tool & Plastic Co., 1/4-C, K. Chatterjee Rd., Calcutta 700002.
Industrial Trading Agency, 27-B, Chittaranjan Ave., Calcutta 700013.
Orissa Plastics, 40, Strand Rd., Calcutta 700001.

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Synthetics & Polymer Ind., S-2, Bapunagar, Ind. Estate, Ahmedabad 380023.

Haryana

Acropolymers Pvt. Ltd., Khandsa Rd., Gurgaon 122001.
Crystic Resins India Pvt. Ltd., 54, Ind. Area, Faridabad 121001.

Karnataka

Mysore Polymers, Shed No. E/10, Ind. Estate, Ramanagaram, Bangalore Dist.

Maharashtra

Allied Traders (Ind.), 169, Masjid Bunder Rd., Bombay 400003.
Ambica Impex Agencies, Parvati Nivas, Daulat Nagar, Rd. No. 7, Borivli, Bombay 400092.
Amritlal & Co. Pvt. Ltd., Rang Udyan, Sitladevi Temple Rd., Mahim, Bombay 400016.
Atul Drug House Ltd., Baldota Bhuvan, 117, M. Karve Rd., Bombay 400020.
Bakolite Hylam Ltd., Tiecicon House, 18, Dr. E. Moses Rd., Bombay 400011.
Bayer (I.) Ltd., Express Towers, Nariman Point, Bombay 400020.
Bhanesh Plastic Ind., 59, Kailash Nagar, 658 Tardeo Rd., Bombay 400007.
Chowgule & Co. (Hind), Pvt. Ltd., India House, Fort St., Bombay 400001.
Ciba of India Ltd., Royal Insurance Bldg., 14, J. Tata Rd., Bombay 400020.
Dr. Bock & Co. (Ind.) Ltd., Bombay-Poona Rd., Pimpri, Pune 411017.
Everbright Industries, 128, Ali Umer St., Near Pydhonie, Bombay 400003.
Fino Plast Sales Corpn., 21, Moti Mahal, Mathew Rd., Bombay 400004.
General Pigment & Chemical Products Pvt. Ltd., Vihar Lake Rd., Saki Naka, Bombay 400072.
Harshadray Pvt. Ltd., Jiji House, Reveline St., Bombay 400001.
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Hoechst Dyes & Chemicals Ltd., Parekh Mahal, V. Nariman Rd., Bombay 400020.
H. S. Sobha Singh & Sons, 16/18, Manu Mansion, Old Customs House Yard, Bombay 400001.
India Carbon Ltd., Shivsagar Estate, Dr. A. Besant Rd., Worli, Bombay 400018.
Indian Plastics & Chemicals Pvt. Ltd., 9, Wallace St., Bombay 400001.
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Monsanto Chemicals of India Pvt. Ltd., Wakefield House, Sprott Rd., Ballard Estate, Bombay 400038.
National Organic Chemical Ind. Ltd., Sandoz House, Dr. A. Besant Rd., Worli, Bombay 400018.
Plastichemicals Co., Mahalakshmi Chambers, B. Desai Rd., Bombay 400026.
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Sanghavi Brothers, Rahmat Bldg., 52, A. Rehman St., Bombay 400003.
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Indo-Nippon Chemical Co. Ltd., Alice Bldg., Dr. D. Naoroji Rd., Bombay 400001.

POLYSTYRENE

Maharashtra

Hindustan Polymers Ltd., C/o Shri Ram Mills Ltd., Fergusson Rd., Bombay 400013.

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Chanson Plastic Manufg. Co., 1/13, West Patel Nagar, New Delhi 110008.

Hindustan Plastic Corpn., 923, Faiz Rd., Karol Bagh, New Delhi 110005.

New Poly Pack Pvt. Ltd., E2, Greater Kailash I, New Delhi 110048.

Rexco Industries (I.) Ltd., Expo Plastics, G-35, Gulabi Bagh, Delhi 110007.

Gujarat

Elite Plastic Co., 12A, Bharatkhand Cotton Mills Compound, Naroda Rd., Ahmedabad 380001.

Hindustan Polythene & Plastic Works, Ind. Area, Yamuna Mill Rd., Vadodara 390004.

Parag Plastic Industries Pvt. Ltd., 80, Makarpura Ind. Estate, P.B. No. 199, Vadodara 390001.

Sanghi Plastic Industries, 14, P.A. Ind. Estate, Sukharam Nagar, Ahmedabad 380001.

Karnataka

Askon Pvt. Ltd., M. S. Ramaiah Ind. Estate, Jalahalli Rd., Bangalore 560012.

Paxal Corpn., No. 13, Sri Krishnarajendra Rd., Fort, Bangalore 560002.

Poly-Plast Ind., Subramanyapura, Bangalore 560011.

Tiptop Plastic Industries, 124, Kilari Rd., Balepet, Bangalore, 560002.

Maharashtra

Glosso Pack Ind., Kotak Niwas, Dhuswadi, Thakurdwar, Bombay 400002.

Maharashtra Plastic Industries, Subhas Nagar, Off. Caves Rd., Jogeshwari East, Bombay 400060.

Polyfab Plastic Ind., 334, N. Natha St., Bombay 400009.

Ravi Corpn., 44, C. P. Tank Rd., Bombay 400004.

S. L. Trading Co., 236A., Maulana Azad Rd., Bombay 400008.

Tamil Nadu

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West Bengal

Bengal Polythene Bag Co., 55, Canning St. (Mehta Bldg.), Block E, Calcutta 700001.

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Indar Plastic Works, 56/1, Canning St., Calcutta 700001.

Lite Engg. Industries, 19, Pollock St., Calcutta 700001.

Orissa Plastics, 40, Strand Rd., Calcutta 700001.

Plasto Craft Industries, 4, Synagogue St., Calcutta 700001.

Polymers India Pvt. Ltd., 10, Mall Rd., Dum Dum, Calcutta 700028.

Shree Uma Textile & Ind., 196, J. Bajaj St., Calcutta 700007.

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D. R. Industries, Swaminarayan Godown, Outside Dariapur Gate, Ahmedabad 380001.

Karnataka

Metro Polythene Manufrs., 35/5, Kalikadevi Rd., Devangere City 577001.

Mysore Plastic Industries, Mahaveer Rd., Bijapur 586101.

Maharashtra

Glosso Pack Ind., Laxmi Woollen Mills Comp., B. Jagtap Marg, Bombay 400011.

India Fibre Bag Manufg. Co., Mithal Estate, M. Visanji Rd., Andheri East, Bombay 400059.

Marvel Ind. Corpn., Block No. 118, Kakad Ind. Estate, Mahim, Bombay 400016.

Modern Packagings, 201, Kalbadevi Rd., Bombay 400002.

Pearl Plastics, Laxmi Bldg., Ballard Rd., Bombay 400001.

Plastic Processors, Interlink Ind. Estate,- Jogeshwari East, Bombay 400060.

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Pratibha Plastic Ind., 18/A-2, Bombay Poona Rd., Pune 411003.

Shree Plastics, Happy-Colony, Kothrud, Pune 411029.

United Plastics Corpn., 162, Tulsi Pipe Rd., Lower Parel, Bombay 400013.

West Bengal

Alkali & Chemical Corpn. of India Ltd., H.O. 18, Strand Rd., Calcutta 700001.

Extrusions, 243, Chittaranjan Ave., Calcutta 700006.

General Extruders, 128, Hazara Rd., Calcutta 700026.

Orissa Plastics, 40, Strand Rd., Calcutta 700001.

Plasto Craft Ind., 4, Synagogue St., Calcutta 700001.

Polymers (India) Pvt. Ltd., 10, Mall Rd., Dum Dum, Calcutta 700028.

Shree Uma Textile & Ind., 196, J. Bajaj St., Calcutta 700007.

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Elite Cable Manufg. Co., 38 E, Kamla Nagar, Delhi 110007.

Moti Electrical Ind. Pvt. Ltd., 15-A, Najafgarh Rd., New Delhi 110015.

Gujarat

Slydex Ind., B-3, B-4, Real Estate Co., Near Nagerwal Hanuman, Rakhial Rd., Ahmedabad 380023.

Maharashtra

Billion Plastic Pvt. Ltd., 101, Himalaya House, Palton Rd., Bombay 400001.

Cable Corpn. of India Ltd, Laxmi Bldg., 6, Ballard Rd., Ballard Estate, Bombay 400038.

Plastic Extrusion Products, 16/17, Marol Ind. Area, M.I.D.C., Bombay 400093.

P.V.C. AND FIBREGLASS FABRICATION

Poly Plast, Thakore Est., Khalai Village, Vidya Vihar (West), Bombay 400086.

P.V.C. LAMINATED SHEETS

Caprihans (India) Pvt. Ltd., Block D, Shivsagar Est., Dr. A. Besant Rd., Bombay 400018.

Shiv Laminating & Coating Pvt. Ltd., E-33/35, Chikalthana Ind. Area, Aurangabad 431001.

P.V.C. PIPES

Victory Plastics Pvt. Ltd., Nirmal, 3rd Floor, 241, Backbay Reclamation, Nariman Point, Bombay 400021.

P.V.C. RESINS & COMPOSITIONS

Delhi

Shriram Chemical Ind., Naaz Bldg., 1, Jhandewalan Estate, New Delhi 110055.

Maharashtra

Ahmedabad Manufg. & Calico Printing Co., Ltd., Calico Mills, Chemical Division, Anik-Chembur, Bombay 400074.

Plastic Resins & Chemicals Ltd., Bharat Insurance Bldg., 15-A, Horniman Circle, Bombay 400001.

Tamil Nadu

Chemicals & Plastics India, Ltd., Dhun Bldg., 175/1, Mount Rd., Madras 600002.

PLAYING CARDS

Bright Mfg. Co., 14-A, Tank Bunder Rd., Bombay 400010.

Laxmi Playing Cards Mfg. Co., 23, Goa St., Bombay 400001.

Metro Playing Cards Co., Metro Est., Central Salsette Track Rd., Kalina, Bombay 400029.

Parksons Printers, Ind. Este., Lalbaugh, Bombay 400012.

Popular Fine Art Litho Works Pvt. Ltd., 133–C, Vakola, Santa Cruz East, Bombay 400055.

PNEUMATIC EQUIPMENT

Consolidated Pneumatic Tool Co. (India) Ltd., 301/302, L. B. Shastri Marg, Mulund, Bombay 400080.

(Also see under 'Tools — Pneumatic' in this list.)

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Jamshedpur :	Flat No. N 2/K-5, Muneshwari Bhavan, Contractors' Area, Jamshedpur-1 (Bihar).

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Adair Dutt & Co. India Pvt. Ltd., 5, Dalhousie Sq. East, Calcutta 700001.

Nistarini Electric Co. Pvt. Ltd., 48/1, Grand Trunk Rd., Baidyabati, Hooghly Dist.

POLYESTER YARN

(See under Nylon & Polyester Yarn in this list.)

PORCELAIN

(See 'crockeries' in this list.)

PORCELAIN & REFRACTORY MATERIALS

The Perfect Pottery Co. (M.B.)Ltd., Ratlam 457001.

(Also see 'Refractory Makers' in this list.)

POTATO WAFER MAKING MACHINES

Hindustan Engg. Co., Aban House, 25, Ropewalk St., off Rampart Row, Bombay 400001.

National Small Ind. Corpn., Prestige Chambers, Kalyan St., Bombay 400009.

PREFABRICATED METAL STRUCTURES

Sasda Industries, C/o Spencer Memorial College, P.O. Ganeshkhind, Pune 411007.

PRINTING INK

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Bharat Varnish Manufg. Co., L. B. Shastri Marg, Ghatkopar, Bombay 400086.

Coats of India Ltd., Transport Depot Rd., Calcutta 700027.

Ganges Printing Ink Factory Ltd., Gillanders House, Block F/3, 8 N. Subash Rd., Calcutta 700001.

Hindustan Chemicals, Ind. Area, Patna 800013.

Hooghly Ink Co. Bombay Ltd., 7, Kumpta St., Bombay 400001.

J. B. A. Printing Inks Pvt. Ltd., A-42, Rewari Line Ind. Area, Mayapuri, New Delhi 110027.

PRINTING PRESS MACHINERY

Gunvantray & Co., Haranwali Pole, Khadia Char Rasta, Ahmedabad 380001.

Handa Enterprises, 3-D.L.F. Ind. Area, Najafgarh Rd., New Delhi 110015.

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Nutex India Pvt. Ltd., 79, Princess St., Bombay 400002.

Printer's House Pvt. Ltd., 10, Scindia House, Connaught Place, New Delhi 110001.

Raj & Co., 40 C. Patel St., Bombay 400001.

R. Pardiwala & Sons, 320, Prasad Chambers, Swadeshi Mills Comp., Bombay 400004.

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Indian Leather Cloth Ind. Pvt. Ltd., Bagri Niwas, 53, Khattarali Lane, Bombay 400002.

Indo-Europe Trdg. Co., Pvt. Ltd., 9, Dalal St., Bombay 400001.

Print & Paper Sales Pvt. Ltd., 7/7A, Waterloo St., Calcutta 700001.

Relief Roller Casting Co., 4, G. C. Bose Rd., Calcutta 700014.

Rudra & Co. Pvt. Ltd., 32, M. Mitter Lane, Calcutta 700006.

Scientific Printers Materials Manufg. Co. Ltd., Mirzapur Rd., Ahmedabad 380001.

Wilson & Co. Pvt. Ltd., B-15, Royal Optical Ind. Estate, 5B, Naigaum Cross Rd., Wadala, Bombay 400031.

PROCESS CONTROL & PRECISION INSTRUMENTS

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Andhra Scientific Co. Ltd., Cantonment Rd., Masulipatnam 521001.

J. N. Marshall & Co., Basheerbagh, Hyderabad 500029.

Madhya Pradesh

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Maharashtra

Applied Electronics Pvt. Ltd., A-5, Wagle Ind. Estate, Thana 400601.

Ashok Sunil & Co. Bandbox House, Prabhadevi, Bombay 400025.

Bajaj Electrical Ltd., 45-47, V. Nariman Rd., Bombay 400001.

Cambridge Instruments (India) Ltd., Bombay-Pune Rd., Pimpri, Pune 411018.

Elmecon Manufg. Co., P. B. No. 93, Pune 411001.

General Instruments Co., 130, Girgaum Rd., Bombay 400004.

Hindustan Precision Instruments Pvt. Ltd., Pimpri, Pune 411018.

Ind. Mill Gin Stores, 51-53, N. Cross Lane, Bombay 400003.

J. N. Marshall Pvt. Ltd., Bombay-Pune Rd., Pimpri P. F., Pune 411018.

Larsen & Toubro Ltd., L & T House, Ballard Estate, Bombay 400038.

Mahlo-Star Electronic Equipments Pvt. Ltd., Dhanraj Mahal, Apollo Bunder Rd., Bombay 400001.

Metzer (India) Optical Instruments Co., 79, Palton Rd., Bombay 400001.

P. Dalal & Co., 104, Kakad Chambers, 132, Dr. A. Besant Rd., Bombay 400018.

Phillips India Ltd., Shivsagar Estate, Dr. A. Besant Rd., Bombay 400018.

Pyrotech Instruments Corpn., 340, Jaigopal Ind. Estate, 510, Bhavani Shankar Rd., Bombay 400028.

Spirax-Marshall Ltd., Bombay-Pune Rd., Pimpri P. F., Pune 411018.

Star Trdg. Co. Pvt. Ltd., Dhanraj Mahal, Apollo Bunder, Bombay 400001.

Toshinwal Bros. Pvt. Ltd., 198, J. Tata Rd., Bombay 400020.

Tradeweld, 7, Kakad Chambers, 132, Dr. A. Besant Rd., Worli, Bombay 400018.

Vijay Lakshmi Electric Co., Sitaram Bldg., 37, Dr. D. Naoroji Rd., Bombay 400001.

Rajasthan

Instrumentation Ltd., Kotah-Jhalawar Rd., Kotah 324001.

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H. Guru Instruments Pvt. Ltd., 10B, Ho Chi Minh Sarani, Calcutta 700016.
Mahindra & Mahindra Ltd., 6, Little Russel St., Calcutta 700016.
Mansfield Oil & Gas Co. Ltd., 16, R. Chaudhary Rd., Calcutta.
National Instruments Ltd., Jadavpur, Calcutta 700032.
Precision Tools and Instruments, 50-B, Gariahat Rd., Calcutta 700019.
Process Control Equipment Co., 55, J. Mitter St., Calcutta 700005.
W. J. Alcock & Co. Pvt. Ltd., K. S. Ray Rd., Calcutta 700001.

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ETA Radio Ind., 4491, Patnamal St., Pahari Dhiraj, Delhi 110006.
General Radio Corpn., 2/2, Jhandelwalan Ext. Scheme, New Delhi 110055.
Motwane Pvt. Ltd., 127, M. Gandhi Rd., Bombay 400001.
Singh Radio Co. India Pvt. Ltd., 21, Daryagunj, Delhi 110006.

PULLEYS, HOISTS, TACKLES

(See under Material Equipment.)

PUMPS

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Neeta Enterprises (Pvt.) Ltd., A-3, Co-op. Ind. Estate, Balanagar, Hyderabad 500037.
Sri Ram Engg. Co., Opp. Synthetic Drugs Project, Kakatpalli, Hyderabad 500037.

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Flowmore Pvt. Ltd., K-40, Connaught Circus, New Delhi 110001.
Gautam Electric Motors Pvt. Ltd., 42, Okhla Ind. Estate, New Delhi 110020.
T.M.C. Vogel Ind. Pvt. Ltd., 4E/8, Jhandewalan Ext., New Delhi 110055.

Gujarat

Economy Engg. Co., Block No. 7-2, Ruvapari Rd., Bhavnagar 364001.
Forge & Blower Co., Naroda Rd., Ahmedabad 380002.
Gajjar Steel Ind., Opp. Ramji Mandir Maninagar, Ahmedabad 380008.
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Jyoti Ltd., P.O. Chemical Ind., Vadodara 390003.
L.M.P. Precision Engg. Co. Pvt. Ltd., Mahadev Nagar, Bilimora 396321.
Matz Engnrs., 12-B, Bhavna Society, Gitamandir Rd., Ahmedabad 380022.
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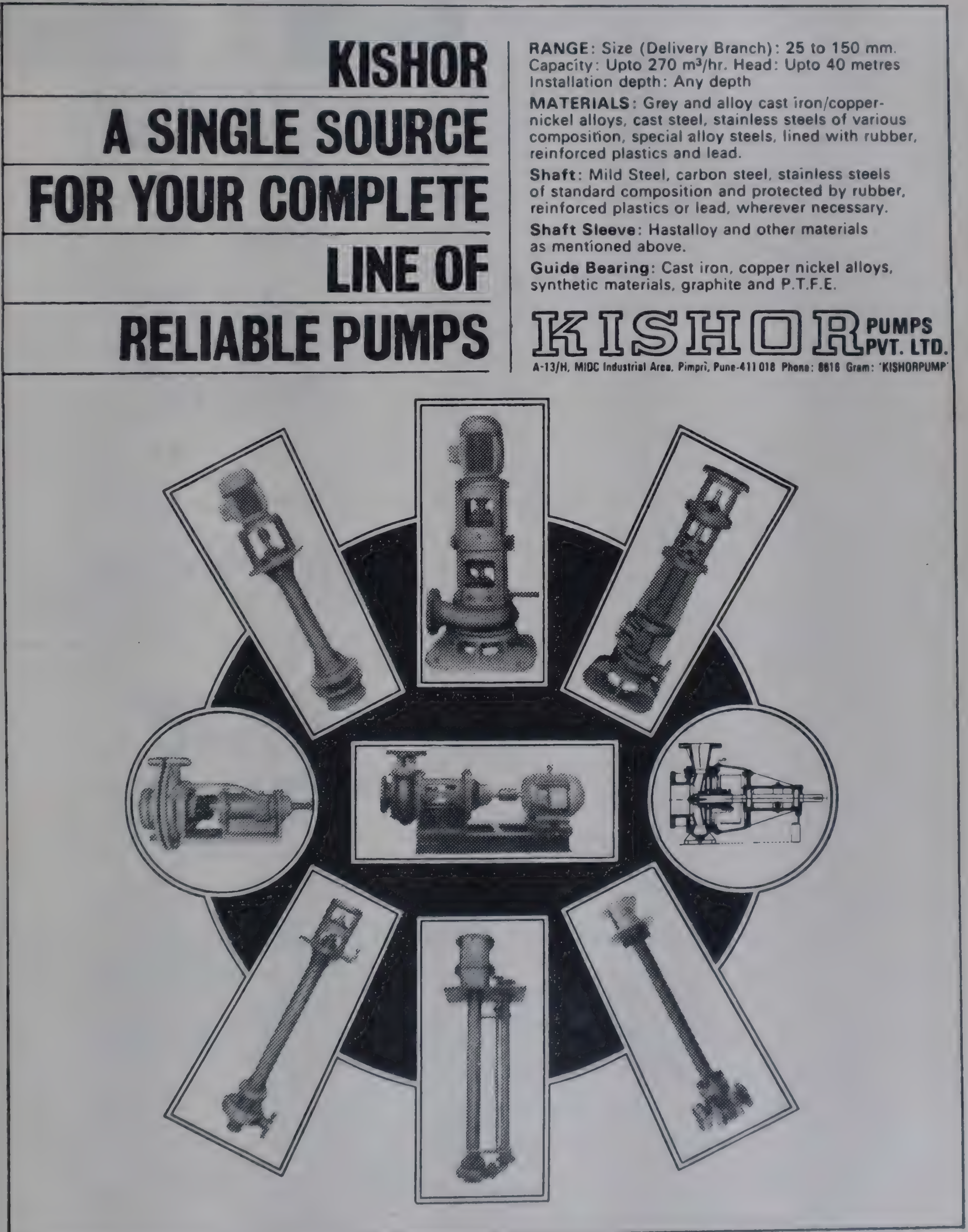
Maharashtra

Airauto Engg. Co., 38, Gala Ind. Estate, Mulund (West), Bombay 400080.
Akay Ind., Shiv Sagar Est., Block 'A', Dr. A. Besant Rd., Worli, Bombay 400018.
Arjan Singh Khemchand, 118, Commerce House, Medows St., Bombay 400001.
Bhangar Bros. & Co. Pvt. Ltd., 142/48, S. Vivekanand Rd., Jogeshwari, Bombay 400060.
Bharat Bijlee Ltd., Udyognagar, Near King's Circle Station, Bombay 400022.
Bharat Electric & Engg. Co., 21, Dalal St., Bombay 400001.
Calama Ind. Pvt. Ltd., Canada Bldg., Dr. D. Naoroji Rd., Bombay 400001.
Cooper Engg. Ltd., Satara 415001.
Crescent Iron & Steel Corpn. Ltd., Ind. Estate, Lalbaug, Bombay 400012.
Crompton Greaves Ltd., 1, Forbes St., Bombay 400001.
Dorr-Oliver India Ltd., 16, M. Karve Marg, Bombay 400001.
Delta Corpn., Udyog Bhavan, Naigaum Cross Rd., Bombay 400031.



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International Instruments, 15, Samrat Silk Mills Estate, Bombay 400079.

K.S.B. Pumps Ltd., 173, J. Tata Rd., Bombay 400020.

Kirloskar Bros. Ltd., Udyog Bhavan, Tilak Rd., Pune 411001.

Kishor Pumps Pvt. Ltd., A 13/H, Block, Pimpri Ind. Area, Pimpri, Pune 411001.

Larsen & Toubro Ltd., L.T. House, Ballard Estate, Bombay 400038.

Mather & Platt Ltd., Hamilton House, 8, Graham Rd., Ballard Estate, Bombay 400038.

Mercantile & Ind. Dev. Co. Pvt. Ltd., Metro Estate, S. B. Barve Marg (W), Kalina, Bombay 400029.

Modi Industries (J.C.) Pvt. Ltd., 62, B. Shankar Rd., Dadar, Bombay 400028.

New Vijay Ind. Ltd., P.O. Wellington College, Vishrambagh, Sangli 416416.

Nigo's Corpn., Patel Comp., 48B, Lamington Rd., Near Nair Hospital, Bombay 400008.

Packco Engg. Pvt. Ltd., Block 2, Shivaji Udyan Nagar, Kolhapur 416001.

Radiant Electric & Machinery Co., C/12, A, Commerce House, Tardeo, Bombay 400054.

Rohini Engg. Works Pvt. Ltd., Ind. Estate, Miraj 416410.

Ruston & Hornsby (I) Ltd., Chinchwad, Pune 411001.

Shivaji Works Ltd., Shivashahi, Sholapur Dist.

Shukla-Manseta Ind. Pvt. Ltd., 8, Hamam St., Bombay 400001.

Sigil (I) Services Pvt. Ltd., Ismail Bldg., 381, Dr. D. Naoroji Rd., Bombay 400001.

Tahira Ind. (I) Pvt. Ltd., 19/21, Manihardas St., Opp. G.P.O., Bombay 400001.

Teknoworks (India), Lal Bahadur Shastri Marg, Bhandup, Bombay 400078.

Todi Ind. Pvt. Ltd., Todi Estates, Lower Parel, Bombay 400013.

V. K. Pump Ind., 39-B, Suren Road, Andheri (East), Bombay 400093.

Vickers Sperry of India Ltd., Akurli Rd., Kandivli, Bombay 400067.

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Pump Manufg. Corpn., Opp. M.I. Rd., Jaipur 302001.

Tamil Nadu

Balasubramania Foundry, 166, Patel Rd., Coimbatore 641009.

Best & Co. Pvt. Ltd., 13/15, North Beach Rd., Madras 600001.

Bharat Foundry, 13, Amman Kulam Rd., Pappanaickenpalayam, Coimbatore 641018.

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Subbiah Foundry, Avanashi Rd., Pappanaickenpalayam, Coimbatore 641018.

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Texmo Ind., P.O. Ganambiga Mills, Coimbatore 641011.

Uttar Pradesh

Delta Engg. Co. Pvt. Ltd., Chipi Tank, Meerut 250001.

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Electric Construction & Equipment Co. Ltd., 27/B, Camac St., Calcutta 700001.

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General Electric Co. of India Ltd., 6, Chittaranjan Ave., Calcutta 700013.

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Indian National Diesel Engine Co. Ltd., Hall and Anderson Bldg., Park St., Calcutta 700016.

Johnston Pumps India Ltd., 2, Fairlie Place, Calcutta 700001.

Lloyds Engg. Co., 3, Amratolla St., Calcutta 700001.

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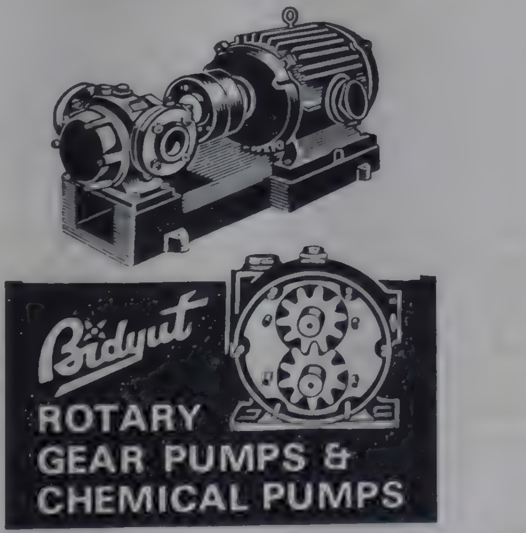

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Singh Radio Co. (India) Pvt. Ltd., 21, Darya Ganj, Delhi 110006.

Telefunken (India) Ltd., G-4, N.D.S.E., Part I, New Delhi 110049.

Television Service Corpn., G-7, Hauz Khas, New Delhi 110016.

Television & Sound Centre, 16/1022, Main Arya Samaj Rd., Karol Bagh, New Delhi 110005.

Televista Electronics (Pvt.) Ltd., 293, Okhla Ind. Estate, New Delhi 110020.

Weston Electronics (Pvt.) Ltd., 244, Okhla Ind. Estate, New Delhi 110020.

Gujarat

Mac Electronics, Shahpur, Bahai Centre, Ahmedabad 380001.

Parry Engg. & Electronics Pvt. Ltd., Opp. Jain Temple, M. Gandhi Rd., Ahmedabad 380001.

Power Cables Pvt. Ltd., 40, Alkapuri, Vadodara 390005.

Television & Components Pvt. Ltd., Plot No. 57, GIDC Ind. Township, Naroda, Ahmedabad.

Karnataka

Associated Electronic & Electrical Ind. (Bangalore) Pvt. Ltd., 113-A, Brigade Rd., Bangalore 560001.

Electronic Devices, Andrews Bldgs., M. Gandhi Rd., Bangalore 560001.

Maharashtra

Afco Ltd., 9, Wallace St., Bombay 400001.

Aarjay & Co., Walker House, 381, Dr. Bhadkamkar Rd., Bombay 400007.

Bhatty Electronics Corpn., 98, Ind. Estate, Kandivli West, Bombay 400067.

Cema Pvt. Ltd., 23, Unique House, B. S. Abdulla Rd., Bombay 400001.

Modern Electronic Products, 6/7, Mahal Ind. Estate, Maha Kali Caves Rd., Andheri (East), Bombay 400069.

Mulchandani Electrical & Radio Ind. Ltd., Sandhurst Bridge, Bombay 400007.

Murphy India Ltd., Dr. Shirodkar Rd., Off Hospital Ave., Parel, Bombay 400012.

National Ecko Radio & Engg., Co. Ltd., Everest House, Bruce St., Bombay 400001.

Philips India Ltd., Pune 411001.

Polestar Electronics Pvt. Ltd., 98, Ind. Estate, Kandivli West, Bombay 400067.

Radio Electric Pvt. Ltd., Lamington Chambers, Dr. Bhadkamkar Rd., Bombay 400004.

Telecom Ind. Pvt. Ltd., 61, Dr. S. S. Rao Rd., Parel, Bombay 400012.

Telerad Pvt. Ltd., Atlas Mills Compound, Reay Rd., Bombay 400010.

Waco Radio Electronics Ind., Sukhsagar Bldg., Hughes Rd., Bombay 400007.

Tamil Nadu

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West Bengal

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Hindustan General Electric Corpn. Ltd., 58, Brabourne Rd., Calcutta 700001.

Mulchandani Radio and Appliances, 2A, Poonam Bldg., Russel St., Calcutta 700016.

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Southern Structurals Ltd., Avadi, Madras 600054.

Uttar Pradesh

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Burn & Co., Howrah Iron Works, Howrah 711101.

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Hindusthan Iron & Steel Co., 8, R. Deb Rd., Calcutta 700007.

Indian Standard Wagon Co., Ltd., Burnpur, Burdwan Dist.

Jessop & Co Ltd., 63, N. Subash Rd., Calcutta 700001.

Machines & Tools Entrepot, 2, Brabourne Rd., Calcutta 700001.

Marcandy Prasad Radhakrishna Prasad Pvt. Ltd., 65, G. T. Rd., Salkia, Howrah 711106.

National Ind. Impex Corpn., 35, Stephen House, Calcutta 700001.

Pelican Engg. Corpn. Pvt. Ltd., 36, Strand Rd., Calcutta 700001.

Railway Supply Corpn. Pvt. Ltd., 10, Ganeshchandra Ave., Calcutta 700013.

Shree Hanuman Foundry & Engg. Co. Ltd., 46, Strand Rd., Calcutta 700001.

Strand Engg. Corpn., P. 50, Princep St., Calcutta 700013.

RECORD PLAYERS

Gramophone Co. of India Ltd., 33, Jessore Rd., Calcutta 700028.

Philips (I) Ltd., 7, J. C. Modhav Rd., Calcutta 700020.

RECTIFIERS

Andrew Yule & Co. Ltd., Yule House, 8, Clive Row, Calcutta 700001.

Sukson Eltronix Corpn., 16/3, Jawaharnagar, Road No. 2, Goregaon (West), Bombay 400062.

REDUCTION GEARS & SPEED REDUCERS

Essential Engg. Co., P. Box No. 1830, Bombay 400001.

REFRACTORY MAKERS

Andhra Pradesh

Dr. V. S. Krishna Ceramics & Potteries, Rajamundry 533101.

Bihar

Harish Tara Refractories, Lake Ave., Kanke Rd., Ranchi 834001.

India Firebricks & Insulation Co. Ltd., P.O. Marar, Hazaribagh 825301.

Jaiswal Ceramic Ind., Lalpur, S.E. Rly., Ranchi 834001.

Jharia Firebricks & Refractory Works Pvt. Ltd., P.O. Dhansar, Dhanbad 826001.

Kumerjuri Firebricks Works, P.B. No. 32, P.O. Katrasgarh, Dhanbad 826001.

Naveen Ind., Mugma, Dhanbad 826001.

Delhi

Amar Nath Bhaskar Sons, P.O. Ishwar Nagar, New Delhi 110001.

Dalmia Ceramic Ind., 4, Scindia House, Connaught Place, New Delhi 110001.

Durga Enterprises Pvt. Ltd., 10, Daryaganj, Delhi 110006.

Ishwar Ind. Ltd., P.O. Ishwar Nagar, New Delhi 110001.

Orissa Cement Ltd., 4, Scindia House, Connaught Place, New Delhi 110001.

S. N. Sunderson & Co., 1, D. Gupta Rd., New Delhi 110055.

Gujarat

Nowroji N. Vakil & Co., Naroda Rd., Ahmedabad 380002
Narendra Ceramics Pvt. Ltd., National Highway Rd., Wankaner.
Parshuram Pottery Works Ltd., Morvi 363641.
Shree Laxmi Ceramics Ind., National Highway No. 8-A, Morvi 363642.

Madhya Pradesh

Kothari Ceramic and Chemical Ind., 21, Ind. Area, Raipur 492001.

Maharashtra

Associated Cement Cos. Ltd., Cement House, 121, M. Karve Rd., Bombay 400020.
Sharad Refractory Works, Khorshed Bldg., Sir P. Mehta Rd., Bombay 400001.

Tamil Nadu

Carborundum Universal Ltd., 11/12, North Beach Rd., Madras 600001.
Dalmia International, 29, Ind. Estate, Ambattur, Madras 600058.
Dalmia Magnesite Corpn., P.B. No. 508, Salem 636005.
Salem Magnesite Pvt. Ltd., Panorama, Hasthimpatti Extension, Salem 636005.

West Bengal

Assam Sillimanite Ltd., P4, Oil Installation Rd., Calcutta 700023.
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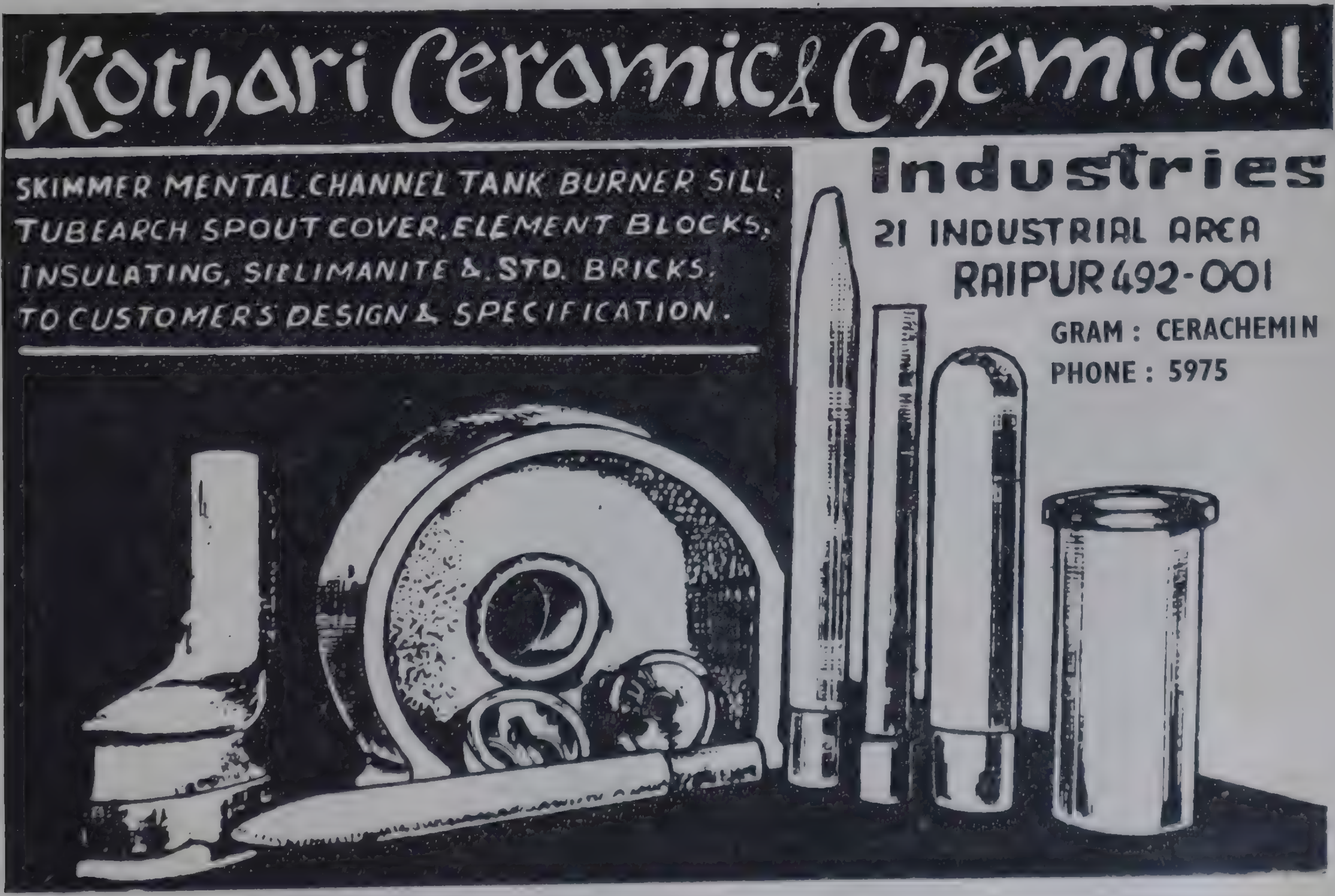

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Bengal Refractories Ltd., 32A, Dharmtolla St., Calcutta 700013.
Bharat Firebricks & Pottery Works Pvt. Ltd., 33, Canning St., Calcutta 700001.
Burn & Co. Ltd., 12, Mission Rd., Calcutta 700001.
Harry Refractory & Ceramic Works Pvt. Ltd., Harry House, 640, Rabindra Sarani, Calcutta 700003.
Hind Refractories Ltd., 135, B. R. B. Basu Rd., Calcutta 700001.
Hindustan Refractories & Ceramics Pvt. Ltd., 20, N. Subash Rd., Calcutta 700001.
India Refractories, Industry House, 10, Camac St., Calcutta 700001.
Industrial Minerals & Mill Stores Traders, Mercantile Bldg., Lall Bazar, Calcutta 700001.
Jauhar Firebricks & Refractory Works Pvt. Ltd., 29, Waterloo St., Calcutta 700001.
Kharkharee Firebricks Works, 91, Stephen House, Dalhousie Sq. East, Calcutta 700001.
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Maithan Ceramics Pvt. Ltd., 36/2, Vivekananda Rd., Calcutta 700007.
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Reliance Firebricks & Pottery Co. Ltd., 11-12, Esplanade Mansion, Calcutta 700001.

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United Tractors Service, 28, Biplabi A. Chandra St., Calcutta 700013.
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Ganges Rope Co. Ltd., 2, Fairlie Place, Calcutta 700001.
Gungadhar Bannerji & Co. Pvt. Ltd., Bakulia House, Kidderpore, Calcutta 700023.
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Foam Rubber Factory, Ind. Estate, Chandulal Baradari, Hyderabad 500002.
Sutlej Rubber Ind., 21-1-153, Kikabgunj, Hyderabad 500002.
U-Foam Pvt. Ltd., B-15, Ind. Estate, Sanatnagar, Hyderabad 500018.

Delhi

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B. N. Rubber Works, 9, Barakhamba Rd., New Delhi 110001.
Bharat Rubber Ind., 8382, Roshanara Rd., Delhi 110007.
Brickley Engg. Pvt. Ltd., 1590, Daribakalan, Delhi 110006.
Davis & White India Pvt. Ltd., 2A/3, A. Ali Rd., Delhi 110001.
General Rubber Co. Pvt. Ltd., P.B. 490, New Delhi 110001.
Mercury Rubber Mills, 2/7, D. B. Gupta Rd., New Delhi 110001.
Phoenix India Rubber Products, IE/5 Jhandewalan, New Delhi 110055.
Saco Rubbers Pvt. Ltd., A-3, Kirti Nagar, Najafgarh Rd., New Delhi 110015.
Sawhney Rubber Ind., 616, Loni Rd., Delhi 110032.
Shree Bharati Udyog Pvt. Ltd., 43, Indra Palace, Connaught Place, New Delhi 110001.
Universal Technical & Commercial Enterprises, P. O. Box 7818, New Delhi 110023.

Gujarat

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Baroda Rubber Ind. Pvt. Ltd., B2668, Gurunath Bhavan, Raj Mahal Rd., Vadodara.
Bharat Casements Pvt. Ltd., P.B. 15, Vadodara.
Bharat Rubber Ind., N. Hanuman Rd., Rakhial, Ahmedabad 380021.
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Grill Ltd., Rakhial Rd., Ahmedabad 380021.
Gooduse Rubber Products, Raipur Gate, Kankaria Rd., Ahmedabad 380001.
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Lathia Ind. Supplies Co. Pvt. Ltd., 108, Naroda Ind. Estate, Naroda, Ahmedabad 380001.
MSM Universal Tyre & Rubber Co. Gujarat Ltd., B.M.C. Bank Bldg., Gandhi Rd., Ahmedabad 380001.
National Ind., 8/64, Municipal Ind. Estate, Bapunagar, Ahmedabad 380023.
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Amco Batteries Ltd., Mysore Rd., Bangalore 560076.

Bangalore Rubber Ind., C-26, Rajajinagar Ind. Estate, Bangalore 560010.

Kerala

Allied Rubber Works Pvt. Ltd., Karapuzha, Kottayam 686001.

Associated Fibre and Rubber Ind. Pvt. Ltd., Kilibar House, Cochin 682001.

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Kerala Rubber & Plastic Ind., Lakshmi Bldg., Kottayam 686001.

N. C. John & Sons Pvt. Ltd., W 22/189, Alleppey 685001.

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Ruby Rubber Works Ltd., 7/460, Oyitty Rd., Calicut 673001.

Stanes Tyre & Rubber Products Ltd., Nagampadam, Kottayam 686001.

Trivandrum Rubber Works Ltd., Trivandrum 695001.

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Auto Steel Ind., C-2-1 Technicians Block, Bhosari Ind. Estate, Pune 411026.

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Basant Rubber Factory Pvt. Ltd., Opp. Sion Rly. Station, Bombay 400022.

Bedrock Tyre & Rubber Co., Masjid Manor, 16, Bruce St., Bombay 400001.

B. J. Rubber Ind., 121/23, Chakla St., Bombay 400003.

Bombay Latex and Dispersions Pvt. Ltd., Western India House, Sir P. Mehta Rd., Bombay 400001.

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Carona Sahu Co., Ltd., 221, Dr. D. Naoroji Rd., Bombay 400001.

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Eagle Rubber Ind., Ghatkopar Ind. Estate, Behind Geoffrey Manners, Ghatkopar, Bombay 400086.

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Ghanshyam & Co., 501-3, S. V. Patel Rd., Bombay 400004.

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Hindustan Rubber Works, 402, Vir Savarkar Marg, Bombay 400025.

Hindustan Tyres Pvt. Ltd., Opp. Agripada Police Station, Dr. A. R. Nair Rd., Bombay 400011.

Imperial Waterproofing Ind. (India), 14, Chakla Cross Lane, Bombay 400003.

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Ind. Rubber Works, 54, Saki Vihar Rd., Bombay 400072.

India Rubber Products, Kasturchand Mills Estate, Dadar, Bombay 400028.

Industrial Rubber Products Pvt. Ltd., Raghu Vinashwadi, Bombay 400018.

Jai Hind Rubber Products Pvt. Ltd., 391-F, Grant Rd., Bombay 400007.

Kale Rubber Works Pvt. Ltd., 56, Bhajipala Lane, Bombay 400003.

Kirti Rubber Works, 205, S. Vivekanand Rd., Jogeshwari, Bombay 400060.

Lathia Rubber Manufg. Co. Pvt. Ltd., Sakinaka, Bombay 400072.

Merchant Bros. 151, Nagdevi St., Bombay 400003.

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Nirmal Rubber & Board Pvt. Ltd., 1-B, Patel Estate, Bombay 400062.

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Kale Rubber Works Pvt. Ltd., Dalvi Rd., Kandivli, Bombay 400067.

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Mykado Auto Ind., (Regd.), 2, Krishna Motor Market, K. Gate, Delhi 110006.
Super Seals India Pvt. Ltd., 21, A. Nizammuddin West, New Delhi 110013.

Gujarat

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Bombay 400004.

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Any other Rubber Items made as per Customers' Drawings or Specifications.

RUBBER MACHINERY

Richardson & Cruddas (1972) Ltd., Byculla Iron Works, Bombay 400008.

RUBBER—RECLAIMED

Indian Rubber Regenerating Co. Ltd., Plot No. F-2, Wagle Ind. Estate, Thana 400604.

RUBBER ROLLERS

Akron Rubber Ind., 134, Old Hanuman Lane, Bombay 400002.
Basant Rubber Factory Ltd., Basant Court, opp. Sion Rly. Stn., Bombay 400022.
Bengal Belting Works Ltd., Mahesh, Hooghly Dist.
Bengal Waterproof Works (1940) Ltd., Panihati, 24-Parganas Dist.
Bombay Rubber Works Pvt. Ltd., Saki-Vihar Rd., Powai Point, Bombay 400072.
Gujarat Rubber Works Ltd., Pratapnagar, Vadodara 390005.
Inarco Ltd., 1-A, Foreshore Rd., Bombay 400021.
Industrial Linings, 547, Kalbadevi Rd., Bombay 400002.
Korula Rubber Co. Pvt. Ltd., 249-B, Worli, Bombay 400018.
Lathia Rubber Manufg. Co. Ltd., Saki Naka, Bombay 400072.
Madras Ind. Linings Ltd., Chetput, Madras 600031.
Rawal Rubber Works Pvt. Ltd., Sukh Sagar, Hughes Rd., Bombay 400007.
Rubber Regenerating & Processing Co., 39-2, Canal West Rd., Calcutta 700004.
Swastik Rubber Products Ltd., Kirkee, Pune 411013.
United India Rubber Works, Lal Darwaja, Surat 395001.

RUBBER SHEETS

Associated Rubber Ind. Ltd., Gogo Rd., Bhavnagar 364001.
Associated Rubber & Plastic Works, 61, Bentinck St., Calcutta 700001.
Bhor Ind. Ltd., Bhor, Maharashtra.
East India Rubber Works Pvt. Ltd., Start Rd., Howrah 711101.
Fibre Foam Co-op. Ind. Ltd., Mathura Rd., Faridabad.
Fibro Foam Products, 9, Marquis St., Calcutta 700001.
General Rubber Co. Pvt. Ltd., 1/10, B. A. Ali Rd., New Delhi 110001.
Hindustan Rubber Works Ltd., Ballygunge Stn. Rd., Calcutta 700019.
Madras Ind. Linings Ltd., Ind. Estate, Madras 600058.
New India Rubber Works Ltd., 34-A, D. C. Dey Rd., Calcutta 700015.
Oriental Rubber Ind. Pvt. Ltd., Agra Rd., Bhandup Bombay 400078.

RUBBER SPORTS GOODS

Ajit Rubber Ind., Ballabhgarh, Haryana.
Bata Shoe Co. Pvt. Ltd., Batanagar, 24-Parganas Dist.
Beekay Rubber Ind., P. O. Rayon Mills, Amritsar 143001.
Bhattacharya Rubber Works Ltd., Jessore Rd., Calcutta 700055.
Everest Rubber Works, Kalibari Rd., Calcutta 700030.
National India Rubber Works Ltd., Katni, M.P. 483501.
Pioneer Rubber Mills (Bombay) Pvt. Ltd., Agra Rd., Bhandup, Bombay 400072.

RUBBER TAPES

Adtapes Ltd., Darbargarh, Bhavnagar 364001.
Leukoplast (India) Pvt. Ltd., Rua S. Thome, Panaji 403001.
Nuffield Ind. Corpn., Dhan Niwas, Shraddhanand Rd., Vile Parle, Bombay 400057.
S. Thakore & Co., Nava Darwaja Rd., Ahmedabad 380001.

RUBBER TREAD

Dunlop India Ltd., 57-B, Free School St., Calcutta 700016.
Good Shepherd Rubber Co., Ind. Estate, Olavakkod, Kerala.
Goodyear India Ltd., Ballabhgarh, Haryana 121004.
Inchek Tyres Ltd., Kankinarah, West Bengal.
Madras Rubber Factory Ltd., Tiruvottiyur, Madras 600019.

RUBBER TUBING

Anand Rubber & Ebonite Products, Ind. Estate, Satpura, Nasik 422001.
Cosmos India Rubber Works Pvt. Ltd., 7, Homji St., Bombay 400001.
Helix Latex Ind., C-11, Model Town, Delhi 110006.
Industrial Products, 139-G, S. Vivekanand Rd., Bombay 400060.
Kantilal Chhotalal & Co., 22, B. Genu Rd., Bombay 400002.
Paul Rubber Works, 9, Ind. Estate, Faridabad, Haryana 121001.
Polymer Enterprises, 36, Hadapsar Ind. Estate, Pune 411028.
Tropical Rubber Co., 1, Barreto's Lane, Calcutta 700001.

RUBBERISED COIR

Fibre Foam Pvt. Ltd., Viveknagar, Balipatam, Kerala.
Koirlap Ind. Pvt. Ltd., Mavelikara 690101, Kerala.
Rubbero Fibre Pvt. Ltd., Chungom, Alleppey 688001.

SAFETY APPLIANCES

Adigee Ind., 59/4, Garfa Main Rd., Jadavpur, Calcutta 700032.
Bengal Engg. Co. Pvt. Ltd., 12, Dalhousie Sq. East, Calcutta 700001.
Fida Traders, 97, Dhaboo St., Bombay 400003.
Impex Engg. & Equipment Co., 138, N. Dhuru St., Bombay 400003.
Joseph Leslie & Co., 105, Apollo St., Bombay 400001.

SAFETY MATCHES

Western India Match Co. Ltd., Indian Mercantile Chambers, Nicol Rd., Ballard Estate, Bombay 400038.

SANITARY WARES & FITTINGS

Delhi

Civil Engg. Co., Arya Samaj Rd., Karol Bagh, New Delhi 110015.
Develop Pump Ind., F.2/27, Krishna Nagar, Delhi 110051.
Gayfield & Co., Chawrie Bazar, Delhi 110006.
Hind Trdg. & Manufg. Co., Gali Barna, Bara Tooti, Sadar Bazar, Delhi 110006.
Kasting Pvt. Ltd., 31 Karnal Rd., Delhi.
Naveen Ind., C-82 Maya Puri, New Delhi 110027.
Parekh & Co., Chawrie Bazar, Delhi 110006.
Sanitary Goods Manufrs., Gurudwara Rd., Karol Bagh, New Delhi 110015.

SANITARYWARES & FITTINGS

THE MYSORE STONEWARE PIPES & POTTERIES LTD.

(Estd. 1937).

Regd. Office :

80, Sixth Cross Road, Gandhinagar,
Bangalore 9.

Phone : 22368. Grams : " MYSTONPIPE "

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Manufacturers of :

Sanitary Sewer Pipes, Fittings, Firebricks and other sanitary articles, Salt Glazed Acid resisting Tiles & Chemical Stoneware.

Vijay Metal Ind., 3830 Gali Lohewali, Charkhewalan, Delhi 110006.

Gujarat

Khodiyar Pottery Works Ltd., Sihor.

Haryana

Hindustan Sanitary Wares Ind. Ltd., Bahadurgarh.

Metal India Corpn., Plot 245, Sector 24, Faridabad 121001.

Karnataka

Metro Malleable Manufrs. Pvt. Ltd., Mysore Rd., Bangalore 560001.

Mysore Stoneware Pipes & Potteries Ltd., 80, Sixth Cross Rd., Gandhinagar, Bangalore 560009.

Maharashtra

Amar Brass & Iron Works, 159 S. G. Barve Marg, Bombay 400029.

Anand Machinery Pvt. Ltd., 3 B. Chinchwad Ind. Area, Pune 411019.

Balsara & Co., 43 N. Master Rd., Bombay 400001.

Bombay Bldg. Materials Trdg. Co., 73 N. Master Rd., Bombay 400001.

Indian Ceramic Centre, 22/24 Old Custom House Rd., Bombay 400001.

Pioneer Iron Foundry, 130/C, Sukhlaji St., Bombay 400003.

Vinubhai Chandulal & Co., 63, Nagdevi St., Bombay 400003.

Punjab

Aminchand Bholanath, Tanda Rd., Jullundur 144001.

Batala Engg. Co. Ltd., Grand Trunk Rd., Batala 143505.

Tamil Nadu

E.I.D. Parry Ltd., Dara House, Madras 600001.

Hargo Ind., 2A, Ind. Estate, Madras 600058.

Madras Enamel Works Ltd., 65 Sydenham Rd., Madras 600001.

Neiveli Ceramics & Refractories Ltd., Vadalur P.O., S. Arcot Dist., Madras.

Regal Products Pvt. Ltd., 186 Royapeth High Rd., Madras 600014.

Uttar Pradesh

Peepul Iron & Steel Ind. Ltd., 34-35, Factory Area, Kanpur 208001.

West Bengal

Agarwal Hardware Works Pvt. Ltd., 167 Chittaranjan Ave., Calcutta 700001.

Allied Agencies (India), 10 N. Chunder St., Calcutta 700012.

Bengal Machinery Co. Pvt. Ltd., 9A, New Tangra Rd., Calcutta 700046.

Brittania Engg. Works & Foundry, 34-35 Hardinge Rd., Salkia, Howrah 711101.

Thakurdas Sureka Iron Foundry Ltd., Banstolla Ghat Rd., Howrah 711101.

SCIENTIFIC INSTRUMENTS

(See Instruments, Scientific in this list.)

SCOOTERS

Bajaj Auto Ltd., Bombay-Poona Rd., Pune 411035.

SCREENS — VIBRATORY

Vibro-Chemi Machinery Pvt. Ltd., Vibro House, Bombay 400074.

SEEDS

Maharashtra Hybrid Seeds Co. Ltd., Plot No. B-4, Ind. Estate, Jalna 431203, Maharashtra.

Nimbkar Seeds & Agricultural Devpt. Co. Pvt. Ltd., Satara 415001, Maharashtra.

SEWING MACHINES

Andhra Pradesh

Jay Engg. Works Ltd. (Hyderabad Usha Works), P.O. Balangar, Bowenpally, Secunderabad 500011.

Sadanand Engg. Works, 19/1, Ind. Area, Azamabad, Hyderabad 500020.

Delhi

Delhi Sewing Machine Co. Pvt. Ltd., Qabul Nagar, Shahadara 110032.

Leader Sewing Machine Co., 49, Esplanade Rd., Delhi 110006.

Mahabir Export & Import Co. Pvt. Ltd., G.T. Rd., Delhi-Shahadara 110032.

Peter Engg. Co., 29, Beadonpura, Karol Bagh, New Delhi 110005.

Rama Sewing Machine Co., 4168, Nai Sarak, Delhi 110006.

Gujarat

Vijay Sewing Machines Co., Ashapuri Rd., Navsari 396445.

Haryana

British Machinery Supplies Co., 17A, New Ind. Township, Faridabad 121001.

Maharashtra

Anson, 605, Girgaum Rd., Bombay 400002.

E. H. Turel & Co., 48, Clare Rd., Bombay 400008.

Jayantilal Keshavlal & Bros, Lehri House, 282, S. V. Patel Rd., Bombay 400004.

Shah & Co., 161/63, Charni Rd., Bombay 400004.

Singer Sewing Machine Co., Singer Bldg., 207, Dr. D. Naoroji Rd., Bombay 400001.

United Trading Agencies, 611, Girgaum Rd., Bombay 400002.

Punjab

Amar Electric & Mechanical Engg. Works, G.T. Rd., Millerganj, Ludhiana 141001.

C. R. Aulack & Co., 426, Ind. Area, G.T. Rd., Ludhiana 141001.

Gobind Ram & Sons, Millerganj, Ludhiana 141001.

New Bijli Foundry, G.T. Rd., Batala 143505.

Panesar Mechanical Works Pvt. Ltd., Ind. Area, Gill Rd., Ludhiana 141001.

Pt. Ramji Das Harbans Lal (Regd.), Sewing Machine Works, Bastti Pathanam, Patiala 147001.

Rita Mechanical Works, Ind. Area, Ludhiana 141001.

Seth Jagat Bandhoo (Regd.), Seth Jagat Bandhoo Rd., Amritsar 143001.

Tamil Nadu

British Machinery Supplies Co., 136, Mount Rd., Madras 600006.

Sharda Machinery Corpn., G.S. Trunk Rd., Chrompet, Madras 600044.

West Bengal

Bagri Iron & Steel Co., 40/1 Shibtola St., Calcutta 700007.

Jay Engg. Works Ltd., 183-A.P. Anwar Shah Rd., Calcutta 700031.

Lotus Ind., 15, Stark Rd., Lilluah, Howrah 711101.

Mahinder Singh Ragbir Singh, 55/103, Canning St., Calcutta 700001.

SEWING THREAD

Bharmal Thread Works, 10, Saifee Jubilee St., Bombay 400003.

SHOTS & GRITS

Micrometallic Industries, 22D, Kandivli Ind. Est., Bombay 400067.

SILICA & SILICATES

Silicates and Catalysts, 15, Zero Rd., Allahabad 211003.

SILK & ART SILK MILLS

(Mills having more than 24 power-looms)

Andhra Pradesh

Sirsilk Ltd., Sirpur, Kagaznagar.

Delhi

D. C. M. Silk Mills, Najafgarh Rd., New Delhi 110015.

Gujarat

Ambika Weaving Factory, Salabatpura, Surat 395001.

Anil Textile Mill, Nirwanbaba's Akhada, Begumpura, Surat 395001.

Artex Manufg. Co., New Cotton Mills, No. 1, Comp., Outside Rajpur Gate, Kankaria Rd., Ahmedabad 380001.

Arun Silk Weaving Factory, Salabatpura, Begumwadi, Surat 395001.

Arun Textiles, Suryapur Mills Comp., Warchha Rd., Surat 395003.

Balwant Silk Weaving Works, Tarwadi Rd., Amreli Dist. (Saurashtra) 364601.

Bhagubhai Dahyabhai Gajiwala Weaving Factory, Kala Mahta's St., Sagrampura, Surat, 395001.

Crown Silk & Rayon Mills Pvt. Ltd., Sobhraj Park, 208, Nicol Rd., P. O. Thakkarbapanagar, Ahmedabad 380001.

Dhamanwala Arvind Silk Mills, Rustompura, Dhamanwala St., Surat 395001.

Dhamanwala Silk Mills, Udhana Rd., Khatodare, Surat 395002.

Dhanamal Silk Mills, Warchha Rd., Surat 395003.

Diamond Silk & Rayon Mills, 210, Nicol Rd., P.B. 1129, Ahmedabad 380002.

Garden Silk Weaving Factory, Rampura Tanki, Surat 395003.

Harihar Silk Mills, Rampura, Main Rd., Surat 395001.

Harishchandra Parashram Weaving Factory, Salabatpura, Ambawadi, Navi Sadak, Surat 395001.

Hathiwala Silk Mills, Begumpura, Surat 395001.

Hathiwala Weaving Mills, Begumpura, Surat 395001.

Hindi Fabrics Weaving Factory, Lal Darwaja, Gundisheri, Surat 395001.

Keshavlal Vajechand & Sons Ltd., C/o K. K. Kapadia, Power House Rd., Cambay.

Maharana Mills Pvt. Ltd., P.B. 11, Porbandar (Saurashtra).

Manilal Shivlal Weaving Factory, Salabatpura, Sambawadi, Surat 395001.

Master Silk Mills Ltd., Bhavnagar (Saurashtra) 364001.

Mehta Silk Mills Pvt. Ltd., P.B. 32, Billimora.

Monco Silk Mills, Chidia Kui, Narmadadevi Estate, Surat 395001.

Nagindas Champaklal Dhamanwal, Rustompura, Agiari Mohalla, Surat 395001.

Nalini Silk Mills, Desai Sheri, Sagrampura, Surat 395001.

Navjivan Weaving Works, C/o Hathiwala Rayon Mills Comp., Chichia Kui, Begumpura, Surat 395001.

New Laxminarayan Mills, Madhobhai Comp., Railwaypura, Ahmedabad 380002.

Prabhat Silk & Cotton Mills Co. Ltd., Dr. Amichand Shah's Wadi, Rampura Tanki, Surat 395003.

Prabhu Silk Mills, Main Rd., Rampura, Surat 395001.

Reshamwala Silk Weaving Works, Rampura Rd., Surat 395001.

Shree Jyoti Silk Weaving Works, Zampa Bazar, Surat 395001.

Shree Laxmi Silk Weaving Factory, Jansinhpura, Amreli (Saurashtra) 364601.

Shree Yamuna Mills Co. Ltd., P.B. 38, Vadodara 390001.

Standard Silk Mills, Lal Darwaja, V. Devdi Rd., Surat 395003.

Swastik Weaving Works, A. Kumar Rd., Surat 395001.

United Textile Manufg. Co., Chevli St., Begumpura, Surat 395001.

Vishwanath Weaving Factory, Nirvanbaba's Akhada, Begumpura, Surat 395001.

Wintex Mills, Lal Darwaja, Station Rd., Surat 395001.

Zenith Silk Mills, Lal Darwaja, Vadtal Devdi Rd., Surat 395001.

Karnataka

Kobay Silk Mills, Modge, P.O. Balekundri, Belgaum Dist. 590001.

Madhya Pradesh

Gwalior Rayon Silk Manufg. (Weaving) Co. Ltd., P.O. Birlanagar, Gwalior.

Maharashtra

Adarsh Textile Industries Ltd., Agra Rd., Bhiwandi, Thana Dist. 400601.
Ahuja Silk Mills, 83, Vithalwadi, Bombay 400002.
Aleli & Co., Agra Rd., Vikhroli, Bombay 400079.
Alliance Silk Mills, Atlas Mills Comp., Reay Rd., Bombay 400010.
Allied Silk Mills, Silk House, Girgaum Rd., Bombay 400002.
Amar Silk Mills, New Islam Mills Comp., Currey Rd., Bombay 400013.
Ambika Silk Mills Co. Ltd., 11-12, Haines Rd., Mahalaxmi, Bombay 400013.
Anant Silk Industries, 53, Chhipi Chawl, Bombay 400002.
Anis Silk Mills, C/o Mani's Trading Corpn., 305, Shri Krishna Niwas, Yusuf Meherali Rd., Bombay 400003.
Asava Silk Mill, C/o Narayandas M. Asava, Ashok, Jilhapeth, Jalgaon 425001.
Asher Silk Mills, Paranjpe 'B' Scheme, Saneri Rd., Vile Parle (East), Bombay 400057.
Ashok Silk Mills, Agra Rd., Near Dargah, Ghatkopar, Bombay 400077.
Asian Rayon Mills, New Islam Mills Comp., Currey Rd., Bombay 400013.
B. M. K. Industries Ltd., Kalina Rd., Old Kurla, Bombay 400037.
Bhaichand Textile Mills, Agra Rd., Bhandup, Bombay 400078.
Bharat Silk Mills Ltd., Opp. Kumari Village, Agra Rd., Kurla, Bombay 400070.
Bharat Vijay Velvet & Silk Mills, Gazdar House, 631, Girgaum Rd., Dhobi Talao, Bombay 400002.
Bipin Silk Mills Pvt. Ltd., 12, Dadar Rd., Kasturchand Mills Comp., Dadar, Bombay 400028.
Bishen Silk Mills, Bishen Udyog Premises Co-op. Society Ltd., L. B. Shastri Marg, Mulund (West), Bombay 400080.
Bombay Silk Mills Pvt. Ltd., Ind. Estate, Lalbaug, Bombay 400012.
Brij Silk Industries, Khanna Ind. Estate, Kurla-Andheri Rd., Saki Naka, Bombay 400072.
Brij Textiles, 4/C, Vulcan Insurance Bldg., V. Nariman Rd., Bombay 400001.
Cadell Weaving Mill Co. Pvt. Ltd., 211/213, Kalbadevi Rd., Bombay 400002.
Central Weaving & Manufg. Co., 19, Chinch Bunder, Bombay 400009.
Chokshi Silk Mills, 61/63, Shamset St., Chhipi Chawl, Zaveri Bazar, Bombay 400002.
Commercial Textile Factory, 172, Lohar Chawl, Bombay 400002.
Dhanish Silk Mills, 32, Shroff Mansion, Princess St., Bombay 400002.
D. V. Industries, Bhau Saheb Desai Wadi, B. Shankar Rd., Dadar, Bombay 400028.
Eldee Velvet & Silk Mills, Opp. Bawalla Mosque, Delisle Rd., Parel, Bombay 400013.
Ellora Silk Mills Pvt. Ltd., Kashmira, S. Vivekanand Rd., Bhayandar Post, Thana 400601.
Ganga Silk Mills, 110, Dr. A. Besant Rd., Worli, Bombay 400018.
Geeta Silk Mills, 26/28, Kolbhat Lane, Kalbadevi Rd., Bombay 400002.
Gokul Enterprise Pvt., Ltd., 194, New Islampura Ward, Bhiwandi, Thana Dist. 400601.
Haren Textiles Pvt., Ltd., C/o Ambika Silk Mills Co. Ltd., 11/12, Haines Rd., Mahalaxmi, Bombay 400013.
Harit Synthetic Fabrics Pvt. Ltd., 52/54, Nakhoda St., Pydhonie, Bombay 400003.
Harshad Textile Mills Pvt. Ltd., Sadhana Rayon House, Dr. D. Naoroji Rd., Bombay 400001.
Himdoot Weaving & Finishing Mills Pvt. Ltd., Saki Vihar Rd., Powai, Bombay 400072.
Hind Silk Mills Pvt. Ltd., C/o Mansukh Dyeing & Printing Mills Comp., Kanjur Village Rd., Bhandup, Bombay 400078.
Hindustan Silk Mills, C/o Ramesh Chandra & Co., Jai Niwas, 36, A. Rehman St., Bombay 400003.
Jagdamba Fabrics Weaving Works, Pirubaug, Goregaon (East), Bombay 400063.
Jaibharat Silk Mills, 498, Kalbadevi Rd., Bombay 400002.
Jaifabs Rayon Industries Pvt. Ltd., Opp. Hatterslay Mills, Agra Rd., Ghatkopar, Bombay 400077.
Jasmine Mills Pvt. Ltd., Dharavi, Bombay 400017.
J. K. Textiles, Agra Rd., Vikhroli, Bombay 400079.
Joy Silk Mills, 625, Nariman Bldg., Near Kalbadevi Post Office, Bombay 400002.
Jyoti Silk Mills, C/o Vanmalidas Zaverchand, 418, Kalbadevi Rd., Bombay 400002.
Kailash Knitting Industries, Jivan Silk Mills Comp., Andheri-Kurla Rd., Bombay 400072.
Kailash Silk Mills, Jivan Mills Comp., Andheri-Kurla Rd., Sakinaka, Bombay 400072.
Kala Silk Factory, Opp. Peru Baug, Aarey Rd., Goregaon East, Bombay 400063.
Kamala Silk Mills, 31, Silk House, Hamalwadi Corner, Girgaum Rd., Bombay 400002.
Kapoor Weaving Works, Gamdevi Rd., Off Agra Rd., Bhandup, Bombay 400078.
Kay-Am Textiles, 108, Cavel St.- Bombay 400002.
Khanna Silk Mills Ltd., Silk House, Silk Bazar, P.B. 2174, Bombay 400002.
Kiran Silk Mills Ltd., Kasturchand Mills Comp., Dadar, Bombay 400014.
Kothari Silk Mills, Atlas Mills Comp., Reay Rd., Bombay 400010.
Krishna Textile Mills, Kishore Bldg., 523, Kalbadevi Rd., Bombay 400002.
Kum Kum Silk Mills Co., Chhipi Chawl, Shamset St., Zaveri Bazar, Bombay 400002.
Kumar Silk Mills, 10, Vishweshwar Nagar, Aarey Rd., Goregaon East, Bombay 400063.
Lajya Silk Mills, 6/8, Jambool Wadi, Kalbadevi Rd., Bombay 400002.
L. D. Weaving Industries Pvt. Ltd., Mehra Estate, Agra Rd., Vikhroli, Bombay 400079.
Liberty Silk Mills Pvt. Ltd., Bharat House, 104, Apollo St., Bombay 400001.
Louis Rayon Mills, 29, Gala Ind. Estate, Dumping Rd., Mulund (West), Bombay 400080.
Mahajan Silk Mills, 1/C-81, Dadajee Dhakjee Bldg., Dr. A. Besant Rd., Bombay 400018.
Mahabir Silk Mills, 64, Chhipi Chawl, Opp. M. J. Market, Bombay 400002.
Mahendra Silk Mills Ltd., 105/107, Tambakanta, Bombay 400003.
Malhotra Silk Mills, Khanna Estate, 59, Saki Naka, Kurla-Andheri Rd., Bombay 400072.
Manhar Mills Ltd., Framji Petit Mills Comp., Reay Rd., Bombay 400010.

M. Manubhai & Co., Nagu Sayajiwadi, New Prabhadevi Rd., Bombay 400025.

Mohanlal Silk Mills, Atlas Mills Comp., Reay Rd., Bombay 400010.

Nanikram Sobhraj Mills Ltd., C/o J. Kimatrai & Co., New Silk Market, P.B. 2054, Bombay 400002.

Narayan Textile Mills, 46/48, Champa Galli, Bombay 400002.

Narendra Silk Mills, Atlas Mills Comp., Reay Rd., Bombay 400010.

National Art Silk Mills Ltd., Old Kasturchand Premises, Dadar, Bombay 400028.

National Rayon Mills, 405, Kalbadevi Rd., Bombay 400002.

Neeru Silk Mills, Mathuradas Mills Comp., Lower Parel, Bombay 400013.

New Era Fabrics Pvt. Ltd., Mogul Lane, Mahim, Bombay 400016.

New India Rayon Mills Co. Ltd., Mathuradas Mills Comp., Lower Parel, Bombay 400013.

New Mahalaxmi Silk Mills Ltd., Mathuradas Mills Comp., Lower Parel, Bombay 400013.

New Oriental Silk Mills Pvt. Ltd., Shree Nath Bhavan, 27, Picket Rd., Cross Lane, Bombay 400002.

New Prabhat Silk Mills, New Silk Bazar, Kalbadevi Rd., Bombay 400002.

New Shorrock Spinning & Manufg. Co. Ltd., Mafatlal House, Backbay Recl., Churchgate, Bombay 400020.

New-Vinod Silk Mills Ltd., Kasturchand Mills Estate, Dadar, Bombay 400028.

Novelty Silk Mills, Dinanath Sons, 466, Bharat Bhuvan, Kalbadevi Rd., Bombay 400002.

Orkay Silk Mills Pvt. Ltd., 5/C, Vulcan Insurance Bldg., Veer Nariman Rd., Churchgate, Bombay 400020.

Panalal Silk Mills Ltd., Atlas Mills Comp., Reay Rd., Bombay 400010.

Panchsheel Textile Industries, Ganesh Bldg., Ganesh Wadi, Bombay 400002.

Pankaj Silk Industries, Adarsh Society, Marve Rd., Malad, Bombay 400064.

Paragon Textile Mills, Globe Mills' Passage, Bombay 400013.

Paras Silk Mills, Sunder Baug, Agra Rd., Kurla (North), Bombay 400070.

Parekh Silk Mills, Paranjpe Scheme, Plot 'B', Sonari Rd., Vile Parle (East), Bombay 400057.

Phoenix Mills Ltd., C/o Ramnarain Sons Ltd., Imperial Bank Bldg., Bank St., Bombay 400001.

Podar Silk & Synthetics Ltd., Podar Chambers, Sayed A. Brelvi Rd., Bombay 400001.

Pratap Silk Mills, Paranjpe's Scheme B, Vile Parle (East), Bombay 400057.

Premco Silk Industries, Gandhi Mansion, New Silk Bazar, Bombay 400002.

Radha Silk Mills, 30, Parsi Panchayat Rd., Andheri, Bombay 400058.

Raghuwanshi Mills Ltd., 11-12, Haines Rd., Mahalaxmi, Bombay 400013.

Rajesh & Co., Pvt. Ltd., Ram Mandir Rd., Ghass Bazar, Near New Standard Engg. Co., Goregaon (East), Bombay 400063.

Rajkamal Silk Mills, 34/42, Nesbit Rd., Mazagon, Bombay 400010.

Rajratna Silk Mills, 20, Navroji Seth St., Thakurdwar, Bombay 400002.

PODAR SILKS AND SYNTHETICS LTD.

Podar Chambers, Fort,
BOMBAY-400 001.
Phones: 269851; Mills: 375281.

★

Podar Textiles present the improved Polyster Blends in a wide range of designs and shades.

Polyster Blend Suitings, Polyster Blend Shirtings, Nylon Crimp Georgette Sarees, Brocades, Satin Lining, Knitted Fabrics etc.

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Directors:

Kantikumar R. Podar, *Chairman*
D. N. Shroff
Vinaykumar R. Podar
Mrs. Snehalata K. Podar
Mrs. Nandini V. Podar
Sagarmall D. Bhiwaniwalla
Brijnarain S. Narula.

General Manager: M. N. Bajaj, B.A., B.Com.

Ramkrishna Silk Mills, Dr. A. Besant Rd., Worli, Bombay 400018.

Ramzan Naboo Weaving Factory, Bengalpura, Bhiwandi, Thana.

Rattan Silk Mills, Shop No. 498, No. 2, Chandra Chawl, M. J. Market, Bombay 400002.

Raylon Silk Mills, 20, Navroji Seth St., Thakurdwar, Bombay 400002.

Rayon Textiles Manufg. Co., 771, Mogul Lane, Mahim, Bombay 400016.

Reliance Textile Industries Pvt., Ltd., Court House, Tilak Marg, Dhobi Talao, Bombay 400002.

Rita Industries, Gandhi Mansion, Near Silk Bazar, Bombay 400002.

Ruby Mills Ltd., Lady Jamshedji Rd., Dadar, Bombay 400028.

S. A. R. Silk Industries, Gandhi Mansion, 12, New Silk Bazar, Bombay 400002.

Sadhana Textile Mills Pvt. Ltd., Sadhana Rayon House, Dr. D. Naoroji Rd., Bombay 400001.

Samarth Velvet Manufg. Co., Kanjur Village Rd., Bhandup, Bombay 400078.

Samraat Silk Mills, L. B. Shastri Marg, Vikhroli, Bombay 400079.

Saraswati Silk Mill, Old Anjirwadi, 34, Champshi Rd., Mazagon, Bombay 400010.

Saroj Silk Mills, 464/68, Bharat Bhuvan, Kalbadevi Rd., Bombay 400002.

Sarwodaya Silk Mills, Agra Rd., Old Kurla, Bombay 400070.

Satish Textiles Pvt. Ltd., 56, Champa Galli, Opp. M. J. Market, Bombay 400002.

Saudagar Textile Works, H. No. 41, Sutar Ali, Bhiwandi, Thana Dist.
Saurashtra Silk Mills, C/o Kantilal Manilal Kamdar, 36, Bhangwadi, Kalbadevi, Bombay 400002.
Sehka Corpn., Ghatkopar Ind. Estate, Gala No. 26A, L. B. Shastri Marg, Ghatkopar, Bombay 400077.
Shanghai Mills Pvt. Ltd., 51, Dadyseth Agiary Lane, Bombay 400002.
Shanti Rayon Mills, C/o Shanti Textile Industries, P.O. J. B. Nagar, Bombay 400059.
Sharada Silk Mills Ltd., Dahanukar Bldg., New Silk Market, Bombay 400002.
Shiv Silk Mills, 91, Shalimar, Marine Drive, Bombay 400002.
Shree Central Silk Mills, 56/58, Agra Rd., Kurla, Bombay 400070.
Shree Mohan Dyeing, Printing & Weaving Mills, Gandhi Mansion, New Silk Bazar, Bombay 400002.
Shree Shakti Mills Ltd., Podar Chambers, Parsee Bazar St., Bombay 400001.
Shree Shanti Textiles Pvt. Ltd., Agra Rd., Ghatkopar, Bombay 400077.
Silk Industries (I.), Mehra Ind. Comp., Kurla-Andheri Rd., Bombay 400072.
Standard Mills Co. Ltd., Mafatlal House, Backbay Recl., Bombay 400020.
Subhash Silk Mills, Kurla-Andheri Rd., Sakinaka, Bombay 400072.
Suvarna Industries, Mehra Estate, Agra Rd., Vikhroli, Bombay 400079.
Usha Prints (I.) Pvt. Ltd., Mehra Estate, Agra Rd., Vikhroli, Bombay 400079.
V. R. Textile Industries, Vajubhai House, 252/58, Sheikh Memon St., Zaveri Bazar, Bombay 400002.
Vania Silk Mills Ltd., C/o Jasmine Mills Ltd., 500, Kalbadevi Rd., Bombay 400002.
Vipul Silk Mills, Ganesh Godown No. 15, Tank Bunder Rd., Reay Rd., Bombay 400010.

Uttar Pradesh

Modi Rayon & Silk Mills, Modinagar.
Shree Silk Mills, C-30/35/D-1, Maldehiya, Varanasi 221001.

West Bengal

Calcutta Silk Manufg. Co., 135-A, B. R. Basu Rd., Calcutta 700001.
Eastern Silk Manufg. Co. Pvt. Ltd., 19, R. N. Mukherjee Rd., Calcutta 700001.
Sarat Textiles Ltd., 9, B. Trunk Rd., Calcutta 700002.
Shri Ram Silk Manufg. Co., 14, Netaji Subhash Rd., Calcutta 700001.

SILOS

Shirke-Prive-Reimbert Silos Pvt. Ltd., 72-76, Mundhwa, Pune 411001.

SIRENS & HOOTERS

Calcutta Fan Works Pvt. Ltd., 30, Chowringhee Rd., Calcutta 700016.
G. R. Electrical Ind., 110, Ripon St., Calcutta 700016.
Hindustan Engrs., 501A, Commerce House, New Delhi 110015.
Lightcraft Corpn., Evergreen Ind. Estate, off Haines Rd., Mahalaxmi, Bombay 400011.
Vijay Lakshmi Electric Co., Sitaram Bldg., 37, Dr. D. Naoroji Rd., Bombay 400001.

SLOTTED ANGLES

Amsons Industries, 211/13, Kalbadevi Rd., Bombay 400002.
Fit-Right Angles, Eastern Chambers, Poona St., Bombay 400009.
Killick Slotted Angles Ltd., Kurla-Powai Rd., Bombay 400072.
MEK Engg. Works Pvt. Ltd., Saffe House, Sant Tukaram Rd., Bombay 400009.
Metrex Pvt. Ltd., Sunder Bldg. Estate, Shastri Marg, Bombay 400074.
Vinar Ltd., 59, Apollo St., Fort, Bombay 400001.

SOAP & TOILETRIES

Andhra Pradesh

Tungabhadra Ind. Ltd. Kurnool 518001.

Bihar

Anand Chemical Ind., Kachisarai, Muzaffarpur 842001.

Delhi

D. C. M. Chemical Works, Najafgarh Rd., New Delhi 110015.
Universal Perfumery Co., 5643, Gandhi Market, Sadar Bazar, Delhi 110006.

Karnataka

Desi Soap Works, Sampangi Tank Rd., Bangalore City 560002.
Manyam & Co., Raja Snow Bldg., Seshadripuram, Bangalore 560020.
Margarine & Refined Oils Co. Pvt. Ltd., 125/1, Mysore Rd., Bangalore 560026.
Miltan Chemeplas Corpn., 17/18, Small-Scale Ind. Area, Rajajinagar, Bangalore 560010.
Mysore Government Soap Factory, Post Bag No. 1031, Bangalore 560012.

Maharashtra

A. A. A. Harwala & Co., 295, Janjiker St., Opp. Juma Masjid, Bombay 400002.
Ahura Chemical Products Pvt. Ltd., 84, Sion Rd., Sion East, Bombay 400022.
Berar Oil Ind., Vanasdapeth, Akola 444001.
Bombay Soap Factory, Ahmed Oomer St., Two Tanks, Bombay 400008.
C. C. Mahajan & Co., 79, Sutar Chawl, Bombay 400002.
Camphor & Allied Products Ltd., Jehangir Bldg., 133, M. Gandhi Rd., Bombay 400001.
Colgate-Palmolive (I.) Pvt. Ltd., Steelcrete House, 3, Dinshaw Vachha Rd., Churchgate Recl., Bombay 400001.
D. D. Shah & Co., Damodar Bldg., 105, Princess St., Bombay 400002.
E. S. Patanwala, Patanwala Ind. Estate, Bombay-Agra Rd., Ghatkopar, Bombay 400077.
General Detergents, 38, Podar Chambers, S. A. Brelvi Rd., Bombay 400001.
Geoffrey Manners & Co. Ltd., Magnet House, Dougall Rd., Ballard Estate, Bombay 400038.
Godrej Soaps Pvt. Ltd., Eastern Express Highway, Vikhroli, Bombay 400079.
HIMCO Products Pvt. Ltd., Mogal Lane, P.B. 6467, Bombay 400016.
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Subsidiary Companies :
Lever Associated Trust Limited; Levindra Trust Limited; Hindlever Trust Limited; and Indexport Limited, Bombay.

Industrial Perfumes Ltd., Army & Navy Bldg., M. Gandhi Rd., Fort, Bombay 400001.

J. K. Helene Curtis Ltd., Jekegram, Thana, 400606.

Kemp & Co. Ltd., 88C, Old Prabhadevi Rd., Bombay 400025.

Lakme Ltd., Bombay House, 24, Bruce St., Bombay 400001.

Muller & Phipps (India) Pvt. Ltd., Queens Mansion, Bastion Rd., Bombay 400001.

Naarden Chemical Wks. (I) Ltd., 6, Saki Vihar Rd., Saki Naka, Bombay 400072.

Rallis India Ltd., Ralli House, 21, Raveline St., Bombay 400001.

Rocky Chemicals Pvt. Ltd., 44, Lakshmi Ind. Estate, Gowalia Chawl Lane, Lower Parel, Bombay 400013.

S. H. Kelkar & Co. Pvt. Ltd., L. B. Shastri Marg, Mulund, Bombay 400080.

Swastika Oil Mills Ltd., 13, W. Hirachand Marg, Bombay 400038.

Tata Oil Mills Co. Ltd., 24, Bruce St., Fort, Bombay 400001.

Western India Vegetable Products Ltd., P.B. 12, Amalner, Jalgaon Dist.

Tamil Nadu

Ganga Works, Lattice Bridge Rd., Adyar, Madras 600020.

Madras Vanaspati Ltd., 12/13, A. Naicker St., Madras 600001.

Veto Co., 16, Jones St., Madras 600001.

Uttar Pradesh

Amrit Banaspati Co. Ltd., Amritnagar, Ghaziabad 201001.

Modi Soap Works, Modinagar, Meerut 250001.

Prag Vanaspati Products, Aligarh 202001.

West Bengal

Asiatic Soap Co., 8, Dalhousie Sq. East, Calcutta 700001.

Bangaluxmi Soap Works, 7, Chowringhee Rd., Calcutta 700013.

Bengal Chemical & Pharmaceutical Wks. Ltd., 6, G. Chandra Ave., Calcutta 700013.

Calcutta Chemical Co. Ltd., 35, Panditia Rd., Calcutta 700029.

Calcutta Soap Works, 'Calsopark', P.O. Tiljala, 24 Parganas 700039.

Himani Pvt. Ltd., 3, Khelat Babu Lane, Calcutta 700002.

Hindustan Development Corpn. Ltd., Hindu Family Bldgs., 27, Sir R. N. Mukherjee Rd., Calcutta 700001.

Howrah Chemical Co., 53/12/2, B. B. Bose Rd., (Ramkristopur), Howrah 711101.

John Paterson & Co. (I.) Ltd., 96, Garden Reach Rd., Calcutta 700023.

Kusum Products Ltd., Bombay Mutual Bldgs., 9, Brabourne Rd., Calcutta 700001.

Model Soap Co., Mehta Bldg., 55, Canning St., Calcutta 700001.

National Jute Trdg. Co. Ltd., 8, Dalhousie Sq. East, Calcutta 700001.

P. Sett & Co. Pvt. Ltd., 3, R. K. Sen Lane, Calcutta 700004.

Reckitt & Coleman of India Ltd., 41, Chowringhee, Calcutta 700016.

Rohtas Ind., 11, Clive Row, Calcutta 700001.

Sisir Soap Works, 12/1, Jessore Rd., Dum Dum 700028.

Swaika Vanaspati Products Ltd., P.N.B. House, 18B, Brabourne Rd., Calcutta 700001.

Vegetable Products Ltd., 1 & 2, Old Court House Corner, Calcutta 700001.

SOAP PLANTS

Pennwalt India Ltd., Signal Hill Annexe, Tank Rd., Sewri, Bombay 400033.

SOUND EQUIPMENT

Philips India Ltd., 68, Najafgarh Rd., New Delhi 110015.

Sonodyne Corpn., 7, S. Roy Rd., Calcutta 700034.

SPECTACLES, FRAMES

(See under Plastic Spectacle Frames)

SPIN DRIERS

Snow White Engrs., 9937, A. Guru Govind Singh Marg, New Delhi 110005.

SPORTS GOODS

K. L. Malhotra Bros, H.O. WX/83, Basti Nau, Jullunder City.

United Sports Traders Delhi Pvt. Ltd., 4162, Behind Indra Market, Subzi Mandi, Delhi 110007.

SPRAYERS

Triniti Metal Ind., A-5, Coop. Ind. Estates Ltd., Balanager, Hyderabad 500037.

SPRINGS, WASHERS & CIRCLIPS

Andhra Pradesh

Rockson Springs (India), 4-869, Abid St., Hyderabad 500001.

Delhi

Hindustan Spring Manufg. Co., 3740, Gali Hakiman, Delhi 110006.

Murarka Engg. Works, 28/37, Najafgarh Rd., New Delhi 110015.

Spring Makers Pvt. Ltd., 8707, Shidipura, New Delhi 110005.

Gujarat

Rajkot Spring Works, Lilavati Chambers, Dhebarbhai Rd., Rajkot 360001.

Karnataka

Canara Workshop Ltd., Kodialbail, Mangalore 575003.

Stumpp, Schnele & Somappa Pvt. Ltd., P. O. Box 78, Bangalore 560001.

Yoshama & Co. Pvt. Ltd., 33-5, Ind. Area, Rajaji Nagar, Bangalore 560010.

Maharashtra

Bharath Electronics & Springs Co., B-66 Rd. No. 34, Wagle Ind. Estate, Thana 400604.

Bharat Spring Pvt. Ltd., Shastri Marg, Bombay 400078.

Cosmos Ind., 26, Old Hanuman Lane, Kalbadevi, Bombay 400002.

Crescent Engg., Narayan Nagar, Agra Rd., Ghatkopar, Bombay 400086.

Crescent Springs, Nandanvan Ind. Estate, Thana 400604.

Fairfield Manufg. Co., Aman Chambers, 113, M. Permanand Marg, Bombay 400004.

Forbes Forbes Campbell & Co. Pvt. Ltd., Forbes Bldg., Homji St., Bombay 400001.

Imanes Pvt. Ltd., 94, S. Vivekanand Rd., Irla, Bombay 400057.

India Leaf Spring Manufg. Co. Pvt. Ltd., Mohatta Market, Palton Rd., Bombay 400001.

Kanoo's Home Ind., 148A Amina Manzil, V. Savarkar Rd., Bombay 400016.

Kemen Pvt. Ltd., Harilela House, Opp. G.P.O., Bombay 400001.

Metropolitan Springs Ltd., Antop Hill, Wadala, Bombay 400031.

Premier Spring Works, 1/1, Kala Ind. Estate, Goregaon, Bombay 400063.

Rainbow Ind., 87, S. Vivekanand Rd., Bombay 400056.

Spring India, Sharda Estate, L. T. Rd., Borivli, Bombay 400092.

Spring & Auto Corpn., 3, Kala Bhavan, Mathew Rd., Bombay 400004.

Yoshama & Co. Pvt. Ltd., 94 S. Vivekananda Rd., Bombay 400056.

Rajasthan

Spring (Rajasthan) Manufg., Co., Tank Rd., Jaipur 302004.

Uttar Pradesh

Nanda Brush & Steel Spring Manufg. Co., Railway Rd., Prempuri, Meerut 250001.

West Bengal

Avon Springs & Accessories Pvt. Ltd., 12, India Exchange Place, Calcutta 700001.

Bhabataran Sarkar & Sons, 62/1A, N. Subash Rd., Calcutta 700001.

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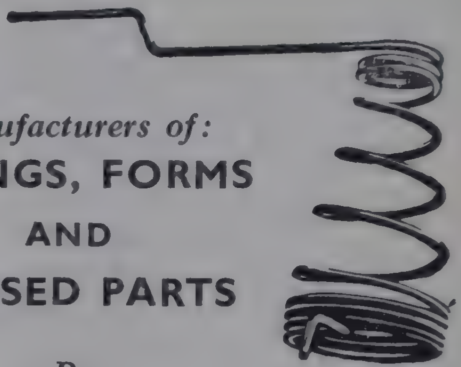
Circlip & Oilseals Co. (Regd.), P. O. Box 603, Calcutta 700001.



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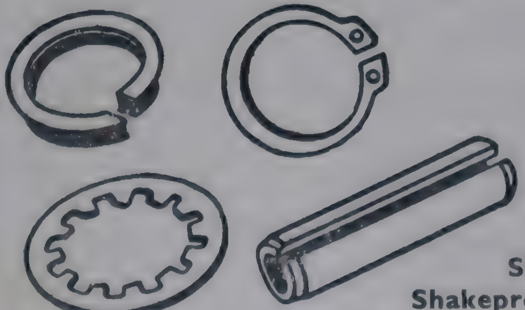

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Sanker Spring & Steel Co., 40, Strand Rd., Calcutta 700001.

Spring Manufrs. (India), 132, Bellaghatta Rd., Calcutta 700015.

Swami & Co., 40/1, Strand Rd., Calcutta 700001.

STAMPINGS

(See under Steel 'Forgings & Stampings' in this list).

STARCH

Delhi

Bharat Starch & Chemicals Ltd., Thapar House, 124, Janpath, New Delhi 110001.

Gujarat

Anil Starch Products Ltd., Anil Rd., P.O. Railwaypura, Ahmedabad 380002.

Maize Products, P.O. Kathwada, Ahmedabad 380002.

Kerala

Kamala Sugar Mills, Kottayam 686001.

Laxmi Starch Factory Ltd., Kundara.

Tapioca Products, Trichur 686001.

Madhya Pradesh

Rajaram & Bros., Mhow-Neemuch Rd., Mandsaur 458001.

Maharashtra

Laxmi Starch Ltd., Das Chambers, Dalal St., Fort, Bombay 400001.

Punjab

Sukhjit Starch & Chemicals Ltd., Phagwara.

Tamil Nadu

Kamala Sugar Mills Ltd., Coimbatore 641001.

STATIONERY

(also see Office Equipment)

Bombay Stationery Mart, 7A, Sir P. Mehta Rd., Bombay 400001.

STATIONERY MAKING MACHINES

Dadiala Engg. Works, 27, DLF Ind. Area, Najafgarh Rd., New Delhi 110015.

TEEL — ALLOY

Bihar

ata Iron & Steel Co. Ltd., Central Administration Office, Jamshedpur 831001.

Haryana

lobe Motors Ltd., (Globe Steels Division), 21/5, Mathura Rd., Ballabhgarh 121004.

Partap Steel Rolling Mills Pvt. Ltd., 21/3, Mathura Rd., Ballabhgarh 121004.

Karnataka

Mysore Iron & Steel Ltd., P.O. Bhadravati 577301.

Maharashtra

Ahmedabad Advance Mills Ltd., Bombay House, 24, Bruce St., Fort, Bombay 400001.

Bihar Alloy Steels Ltd., L. Shastri Marg, Bhandup, Bombay 400078.

Firth Sterling Steel Co. of India Ltd., Plot No. F-3, Rd. No. 22, Thana Ind. Area, P.O. Wagle Estate, Thana 400604.

Mahindra Ugine Steel Co. Ltd., Shree Niketan, Shiv Sagar Estate, Dr. A. Besant Rd., Worli, Bombay 400018.

Man Ind. Corpn. Ltd., 66, Alli Chambers, Tamarind Lane, Fort, Bombay 400001.

Mukund Iron & Steel Works Ltd., Belapur Rd., Kalwa, Thana 400605.

Punjab

Punjab Iron & Steel Co. Pvt. Ltd., G.T. Rd., Jullundur Cantt. 144005.

West Bengal

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Bihar

Ashoka Steels, Ashoka Cement Ltd., Dalmianagar.

Foundry Forge Plant of Heavy Engg. Corpn. Ltd., Dhurwa, Ranchi 834004.

Kumardhubi Engg. Works Ltd., Kumardhubi, Dhanbad 826001.

Tata Engg. & Locomotive Co. Ltd., Jamshedpur 831001.

Tata Yodogawa Ltd., Adityapur, Near Jamshedpur 831001.

Usha Alloys & Steel Ltd., Adityapur.

Gujarat

Bharat Steel Foundry, Ganedia Kuwa Rd., Kotharia, Rajkot 360001.

Hindustan Brown Boveri Ltd., Maneja, Makarpura Rd., Vadodara 390001.

Poly Steels (India) Ltd., Survey No. 46, Nari Rd., Bhavnagar 364001.

Steel Cast Corpn., Ruvapari Rd., Bhavnagar 364001.

Haryana

Dabriwals Steel & Engg. Co. Ltd., Sector 24, Plot No. 136, P.O. Faridabad 121001.

Globe Steels (Divn. of Globe Motors Ltd.), 21/4, Mathura Rd., Ballabgarh 121004.

Haryana Steel & Alloys Ltd., G.T. Rd., Murthal (Sonepat) 131001.

Jindal Strips Pvt. Ltd., Delhi Rd., Hissar 125001.

Northern India Iron & Steel Co. Ltd., 20/3, Milestone, Mathura Rd., Faridabad 121004.

Oswal Steels, Plot No. 263, Sector No. 24, Faridabad 121001.

Pratap Steel Rolling Mills Pvt. Ltd., 21/3, Mathura Rd., Ballabgarh 121004.

S. G. Steels Pvt. Ltd., Plot No. 6, Sector 4, Ind.-cum-Housing Estate, Faridabad 121001.

Universal Steel & Alloys Ltd., P.O. Gurukul, Indraprastha, Ind. Estate, Faridabad 121001.

Karnataka

Bhoruka Steel Ltd., Hoodi Village, Krishnarajapuram Rd., Bangalore 560048.

Canara Workshops Ltd., Maroli, Mangalore 575005.

Mysore Iron & Steel Ltd., P.O. Bhadravati, Shimoga Dist.

Kerala

Steel Complex Ltd., 'Wisco Manor', Feroke.

Madhya Pradesh

Binod Steels Ltd., 68/77, Ind. Estate, Pologround, Indore 452001.

Central India Machinery Manufg. Co. Ltd., Agra Loop Rd., Birlanagar, Gwalior.

Himmat Steel Foundry Pvt. Ltd., Kumhari, Durg Dist.

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Maharashtra

Aeron Steel Rolling Mills, 2nd Pokhran Rd., Majiwada, Thana 400601.

B. R. Hermann & Mohatta (I) Pvt. Ltd., Murbag Rd., Opp. Century Rayon, P.O. Ulhasnagar 421001.

Godrej & Boyce Manufg. Co. Pvt. Ltd., Vikhroli, Bombay 400079.

Indian Steel Ind. Corpn., 106-7, Bazar Ward, Kurla, Bombay 400070.

Krishna Steel Ind. Pvt. Ltd., Plot C-39A, MIDC Ind. Area, Off Thana Bellapur Rd., Thana 400601.

Kumar Steel & General Mills, Vikhroli, Bombay 400083.

K. T. Steel Ind. Pvt. Ltd., Budlapur Rd., Ambarnath.

Mukund Iron & Steel Works Ltd., Kurla, Bombay 400070.

Malleable Iron & Steel Castings Co. Pvt. Ltd., Mathuradas Mills Comp., S. Bapat Rd., Lower Parel, Bombay 400013.

Mahindra Ugine Steel Co. Ltd., P.O. Khopoli, Kolaba Dist.

Mitur Castings Pvt. Ltd., Eastern Exp. Highway, Panchpakhadi, Thana 400601.

Premier Automobiles, Antop Hill, Wadala, Bombay 400031.

Western Rolling Mills Pvt. Ltd., L.B. Shastri Marg, Bhandup, Bombay 400078.

Punjab

Apeejay Steel Castings Co. Pvt. Ltd., Tanda Rd., Jullundur City 144001.

Ashoka Alloy Steels Pvt. Ltd., Sadopur, Near Ambala City.

Punjab Concast Steels Ltd., Dhandri Kalan, Ludhiana 141001.

Punjab Iron & Steel Co. Pvt. Ltd., G.T. Rd., Jullundur Cantt., 144005.

Upper India Steel Manufg. & Eng. Co. Pvt. Ltd., Village Sherpur Kalan, G.T. Rd., Ludhiana 144005.

Rajasthan

Man Ind. Corpn. Ltd., Near Loco, P.B. 131, Jaipur 302001.

National Engg. Ind. Ltd., Jaipur 302001.

Tamil Nadu

Continuous Steel Casting Plant of TIDCO Ltd., Mosur Rd., Ehku Nagar, Arkonam, 631001.

Ennore Foundries Ltd., Ennore, Madras 600057.

K.C.P. Ltd., Central Workshops, Tiruvottiyur, Madras 600019.

Shri Ramakrishna Steel Ind. Ltd., Post Karamadai, Coimbatore Dist.

Sivananda Steels Ltd., Ind. Estate, Ambattur, Madras 600058.

Uttar Pradesh

Ambica Steels Ltd., 51/2, Ind. Area, Site 4, Sahibabad-Ghaziabad 201001.

J. K. Iron & Steel Co. Ltd., Kalpi Rd., Kanpur 208001.

Meena Steels, Bindki Rd., Fatehpur Dist.

Modi Steels, Modi Ind. Ltd., Modi Nagar.

Motilal Padampat Sugar Mills Co. Pvt. Ltd., Steel Foundry Division, Gutaiya, Kanpur 208001.

Paliwal Steels Pvt. Ltd., Jarauda, Meerut Rd., Muzaffarnagar 251001.

SPECIAL STEELS LIMITED

Registered Office & Factory :
Mouje Magathane, Dattapara Road, Borivli (East), Bombay 400066.
Phone : 662421. *Grams :* "DRAWNWIRES".
Telex : 011-2652.

City Office :
'New India Centre', 17, Cooperage Road, Bombay 400039.
Phone : 213127. *Grams :* "DRAWNWIRES".
Telex : 011-3523

Our Manufacturing Range

Mild Steel Wires : Cable Armour wire, Electrode wires, G. I. wires, Telegraph wire, Stay wire, H.B. wire, Mild Steel Annealed wire, Copper Coated and Tin Coated wire for pins, clips, staples and sparklers, Shoetack wire, Steel—Wool wire, Reed wire, Ring traveller wire, Stitching wire Galvanised, Cycle Chain Rivet wire, Cycle Accessories wire, Cold heading quality wire for wood screws, Machine screws, Low tensile bolts, Rivets and Textile accessories, C-1110 Cold heading quality wire for scrapless nuts, Tin-coated Detonator wire, Mild steel square umbrella rib wire, Round Base wire and other low carbon and Mild Steel wires.

High Carbon Steel Wires : High Carbon Steel wire for cycle balls conveyer belts, spring washers and circlips, trapezoidal, square and rectangular wires for spring washers, C-1038, etc., cold heading quality for high tensile bolts, tin-coated armature banding wire, Copper and Bronze coated tyre bead wire, Patented heald wire, Patented and drawn heald wire, Prestressed Concrete Wire — single — as drawn Prestressed Concrete wire — stress relieved, Prestressed concrete wire — stranded — stress relieved, Galvanised and Bright spoke wire for cycles and mopeds, Spring steel wire — patented and drawn, Spring steel wire-hardened and tempered, Spring steel wire — Annealed, Needlewire — copper coated and bright, Umbrella rib wire, Tiller Spring wire, Shutter Spring wire, Brush wire, Metallic & Flexible Card Clothing wire, single or stranded A.C.S.R. Core wire and other High Carbon steel wires.

Alloy Steel Wires : Chain Rivet wire for industrial roller chains (SAE 8622, 16MnCr5), High tensile chain link wire, (SAE 8622, SAE 8620, etc.), Cold heading quality wire for high tensile fasteners (AISI 4140), High carbon chromium ball bearing wire (SAE 52100) and other alloy Steel wires.

Stainless Steel Wires : Stainless steel wires for electrodes, springs, hospital-ware, chemical and food industry, fasteners, sieves, wire mesh, watch straps, Ball Bearings, etc.

Bright Drawn Bars : In the following qualities :
Alloy steel — SAE52100, SAE4140, SAE8622, 16MnCr5, En51, En52, En54, En59, En24, etc., Mild Steel, Free cutting steel-en-1A, C 1110 etc. High Carbon steel-En8, En9, En42, C 1038, etc.

Flat Strips : Cable armour strip, Base wire, High carbon and Mild steel strips.

Regional Offices :
Everest House, Blocks D & E, 46-C, Chowringhee Road, Calcutta 700016.
Phone : 444137. Grams : "STEELNOOK." Telex : 021-587.

1/3A, Govind Mansion, H Block, 1st floor, Indra Palace (Annexe), Connaught Place, New Delhi 110001.
Phone : 47926. Grams : "DRAWNWIRES." Telex : 031-483.

Hamid Buildings, 3rd floor, 40 Mount Road, Madras 600001.
Phone : 84755. Grams : "DRAWNWIRES". Telex : 041-377.
Rajeshwari Bhavan, Gurudhan, Durga-Kund Road, Varanasi.
Phone : 66033. Grams : "DRAWNWIRES".

Rainbow Steels Ltd., Meerut Rd., Muzaffarnagar 251001.

Rathi Alloys & Steel Ltd., Plot No. A-1, Ind. Area, South of G.T. Rd., Ghaziabad 201001.

Rathi Ispat Ltd., Area No. 1, Ghaziabad 201001.

R. R. Steels & Alloys Ltd., P.O. Clutterbuckgunj, Bareilly.

Saraya Steels Ltd., P.O. Sardar Nagar, Gorakhpur.

Shriniwas Steels Ltd., Near Jhansi.

Singh Engg. Works (Pvt.) Ltd., Fazalganj, Factory Area, Kanpur 208001.

Somani Steels Ltd., Sonik, Unnao Dist.

Uttar Pradesh Steels Ltd., Village Nara, P.O. Mansurpur.

Vaid Steels, Ind. Area, Aishbag, Lucknow 226004.

West Bengal

Alloy Steel Plant, Hindustan Steel Ltd., Durgapur 713204.

Bengal Ferro Alloy & Steel Ltd., Kaliani, Nadia Dist.

Burn & Co. Ltd., 20, N. Mukerjee Rd., Howrah 711101.

Electrosteel Castings Ltd., Kharda, B.T. Rd., Sukchar, 24 Parganas.

Guest, Keen, Williams Ltd., Steel Division, 97 Andul Rd., Howrah 711103.

Gontermann Peipers (I) Ltd., Diamond Harbour Rd., Amgachia, 24 Parganas.

G.E.C. of India Ltd., 6 Chittaranjan Ave., Calcutta 700013.

Hindustan Motors Ltd., P.O. Hindmotor, Uttarpara, Hooghly Dist.

Hindustan Iron & Steel Co., 68 Jessore Rd., Dum Dum 700028.

Howrah Iron & Steel Works (Pvt.) Ltd., 90 Benares Rd., Salkia, Howrah 711106.

Indian Iron & Steel Co. Ltd., Asansol, 713301.

Indo-Japan Steels Ltd., 5/1, G.T. Rd., Belur, Howrah 711101.

Kusum Steels (Pvt.) Ltd., 109, G. Ghose Rd., P.O. Belur Math, Howrah 711101.

Mining and Allied Machinery Corpn. Ltd., P.O. Durgapur 713201.

National Iron & Steel Ltd., P.O., Belur Math, Howrah.

Orient Steel & Wire Inds. Ltd., 6, G. Pathak Rd., P.O. Lilluah, Howrah.

Textile Machinery Corpn. Ltd., Steel Foundry Division Belgharia, Calcutta 700056.

STEEL FURNITURE & SECURITY EQUIPMENT

Andhra Pradesh

Andhra Steel Furniture Works, 7, M. Gandhi Rd., Secunderabad 500003.

Bhatia Steel Furniture Pvt. Ltd., New Bhoiguda, Secunderabad 500001.

Hyderabad Allwyn Metal Works Ltd., Sanatnagar, Hyderabad 500018.

Triniti Metal Ind., A-5, Co-op. Ind. Estate Ltd., Balanagar, Hyderabad 500037.

Assam

Assam Steel Products Pvt. Ltd., P.O. Jorhat 785001.

Delhi

Delhi Engg. Works Pvt. Ltd., Azadpur, Delhi 110033.

Delite Safe Works, Qutab Rd., Delhi 110006.

Fourbhai Engg. Works, G. T. Rd., Delhi 110032.

Garnish Traders Pvt. Ltd., 24, Kamla Market, New Delhi 110001.

Indian Safe Factory, 10254, Loha Mandi, Motia Khan, New Delhi 110007.

J. M. Chimanlal Agarwal & Co., 3676, Chawri Bazar, Delhi 110006.

Style Steel & Engg. Works, 60, M. M. Rd., New Delhi 110001.

Gujarat

Ahmedabad Eagle Engg. Enterprises Pvt. Ltd., 410, Near Rly. Crossing, Naroda, Ahmedabad 380001.

Chandan Metal Products Pvt. Ltd., Gorwa Rd., Vadodara 390003.

Jayendra Metal Ind. Ltd., Opp. Baroda College, Vadodara 390001.

Laxmi Steel Ind., Bhimnath Rd., Shastri's Baug, Sayajiganj, Vadodara 390005.

Security Equipment Manufrs., 47, Ind. Estate, Naroda, Ahmedabad 380001.

Zalawar Ind. Co-op. Society Ltd., 10, Sarvodaya Society, Surendra Nagar 363001.

Karnataka

Jagadamba Galvanizing & Engg. Works, Bennarghatta Rd., Bangalore 560030.

Mahakali Engg. Corpn., No. H66, Nagarthpet, Bangalore 560002.

Vijaya Trading Co., 306, Sub. Chatram Rd., Bangalore 560009.

Madhya Pradesh

Hindustan Steel Ind., Ind. Estate, Bhopal, 462001.

Maharashtra

Dhaga Steel Furniture Manufg. & Engg. Co., Guruwarpeth, Sholapur 413001.

Dwivedi Steelmade Pvt. Ltd., 230, Dr. A. Besant Rd., Bombay 400018.

Godrej Boyce Manufg. Co. Pvt. Ltd., Godrej Bhavan, Home St., Bombay 400001.

Govin's Safe Manufg. Co., 268, Kalbadevi Rd., Bombay 400002.

Gujarat Iron & Steel Works, 356, Sandhurst Rd., Bombay 400004.

Khinvasara Ind., S. No. 127, Akurdi, Pune 411019.

Khira Steel Works Pvt. Ltd., Sandhurst Bridge, Bombay 400007.

Methodex Business Systems, 33-A, New Marine Lines, Bombay 400020.

Metro Steel Products, Kalbadevi Rd., Bombay 400002.

New Gujarat Safe & Steel Works, Jogeshwari, Bombay 400060.

Office Equipment Co., of India, 10-C, Tulsipipe Rd., Bombay 400013.

Standard Steel Furniture Works, 91, Mohammedali Rd., Bombay 400007.

Steelage Ind. Ltd., Opp. Post Office, Mazagaon, Bombay 400010.

Steelmade, 230, Dr. A. Besant Rd., Bombay 400018

Tamil Nadu

Aysha Ind. Trading Corpn., Ind. Colony, Tiruchirapalli 620001.

Bendweld Ind., 297, T. H. Rd., Madras 600001.

Dindigul Lock Workers, Co-op. Ind. Society Ltd., Malaipatli Rd., Dindigul 624001.

Tamilnad Thozhilagam, Sidco Plot-13, Ind. Estate, Ambattur, Madras 600058.

Uttar Pradesh

Bhatia Safe Works, Factory Area, Kanpur 208001.

Charan Safe Works Pvt. Ltd., 6-A, Ind. Estate, Kanpur 208001.

West Bengal

Acme & Co., 'Jain House', 8/1, Esplanade East, Calcutta 700001.
Anand Metal & Steel Works, 137, B. R. B. Basu Rd., Calcutta 700001.
Bengal Steel Furniture, P-40/45, Ezra St., Calcutta 700001.
Bungo Steel Furniture Ltd., 57, Diamond Harbour Rd., Calcutta 700023.
Calcutta Furniture Works Ltd., 27-E, B. Ghose St., Calcutta 700003.
Chatterjee Engg. Co., 113, Linin Sarani, Calcutta 700043.
Commercial Medium Pvt. Ltd., 51, Chittaranjan Ave., Calcutta 700012.
Cromelite India Pvt. Ltd., P-35, India Exchange Place, Calcutta 700001.
DE's Lock Ind., 31, H. Dutta Lane, Calcutta 700033.
India Steel Manufg. Co., 95, M. Gandhi Rd., Calcutta 700037.
Joinery Manufg. Co., 77/1, Christopher Rd., Calcutta 700046.
Jupiter Steel Manufg. Co., 20/A, Brabourne Rd., Calcutta 700001.
Kedarnath Parsotamdas & Co., Pvt. Ltd., 37, N. Subash Rd., Calcutta 700001.
Metro Ind. Works, 94, B. Ghose Rd., Calcutta 700040.
Orient Safe & Cabinet Manufg. Pvt. Ltd., 132, B.R.B. Basu Rd., Calcutta 700001.
Roy-Singha Engg. Works, 639, Diamond Harbour Rd., Behala, Calcutta 700034.
Steel Products Ltd., 96, Garden Reach Rd., Calcutta 700027.

STEEL—STAINLESS

Andhra Pradesh

Deccan Stainless Steel & Wire Ind., Block B, 19/4, Ind. Area, Azmabad, Hyderabad 500020.
Vishalandhra Ind., Plot 1, Ind. Area, Azmabad, Hyderabad 500020.

Bihar

United Ind. Works, 18, Ind. Estate, Patna 800013.

Delhi

Ashok Manufg. Co. Pvt. Ltd., 37, Panchkuin Rd., New Delhi 110001.
Bajaj Metal Works, J-356, New Rajinder Nagar, New Delhi 110060.
Ind. Engg. Corpn. of India, 3, Badli Ind. Estate, P.O. Badli, Delhi 110042.
Nandi Agencies, C-29, Lajpat Nagar III, New Delhi 110024.
Shree Metal Works, 25/4, Block 'A', Connaught Place, New Delhi 110001.
Shahdara Aluminium Factory, G. T. Rd., Shahdara, Delhi 110032.
United Engg. Corpn., XV/10159, D. B. Gupta Rd., Paharganj, New Delhi 110055.

Gujarat

Ambica Metal Pressing Ind., D/14, Ramkumar Mills Comp., Saraspur, Ahmedabad 380018.
Asha Metal Ind., Prajapatiwadi, Vijalpore, Navsari 396445.
Dasharathlal Chimanlal & Bros., Gujarat Pharmaceutical's Comp., Near Chamunda Mata Asarwa, Ahmedabad 380016.
Naran Lala Metal Works Pvt. Ltd., Near Rly. Stn., Navsari 396445.
Precision Engg. Ind., Kapadia Bldg., Lakkad Pitha, Madan Zampa, Vadodara 390001.
Shah Bhogilal Devchand, New Vasan Market, Manek Chowk, Ahmedabad 380001.
Shreyas Metal Ind., 1787/1-1, Bhathiara's Pole, Lunsawala, Ahmedabad 380001.

Haryana

Adarsh Metal Ind., Jagadhri 135003.
Punjab Wire Netting Ind., Railway Rd., Narnaul 123001.
Shibu Metal Works, Jagadhri 135003.

Himachal Pradesh

Shivalik Metal Ind., Bhadri Nagar, Paonta.

Jammu & Kashmir

Ess Tee Ind., 46, Ind. Estate, Jammu Tawi 180001.
National Kashmir Engg. Works, 46-D, Ind. Estate, Jammu 180001.

Karnataka

Sri Viswanatha Silver Manufg. & Electroplating Works, 61/5, Sadara Patharappa Rd., Bangalore 560002.

Kerala

A.K.P. Metals & Alloys, Christ College Rd., Irinjalakuda 680121.

Maharashtra

Ajanta Metal Ind., 382/84, Katha Bazar, Bombay 400009.
Amalgamated Universal Agencies Pvt. Ltd., 306, Lotus House, 33A, New Marine Lines, Bombay 400020.
Asian Metal Corpn., 142, Panjrapole Rd., Gulalwadi, Bombay 400004.
Best Silver Co., 34-F, M. Gandhi Rd., Vile Parle (East), Bombay 400057.
Bhandari Metal Ind., Main Rd., Bhandara 441904.
Bharat Metal Ind. (B'lore), 154, B. Khote St., Bombay 400003.
Bharat Metal Ind., 122-13/21, 3rd Panjrapole Lane, Bombay 400004.
Bhogilal & Co., 250-C, New Cross Rd., Opp. Metal Box Co., Worli, Bombay 400018.
Bihar Alloy Steels Ltd., Bombay-Agra Rd., Bhandup, Bombay 400078.
Bombay Brass & Metal Works, 2nd Panjrapole St., Bombay 400004.
Deepak Metal Ind., 16, Bank St., Bombay 400001.
Deval Utensils Factory, 15/1, Karve Rd., Pune 411004.
Devidayal Stainless Steel Ind. Pvt. Ltd., Darukhana, Reay Rd., Bombay 400010.
Eastern Metal Works, 102, Dattaram Lad Path, Bombay 400033.
Gujarat Metal Factory, 589, Rasta Peth (New), Pune 411011.
Hedavkar Metal Pressing Works, B. Shankar Cross Rd., Dadar, Bombay 400028.
Highland Metal Ind., B/24, Sarvodaya Nagar, Panjrapole Rd., Bombay 400004.
Hindustan Metal Ind., B-15, Sarvodaya Nagar, Panjrapole Rd., Bombay 400004.
India Metal Ind., Parekh Nagar, S. Vivekanand Rd., Kandivli (West), Bombay 400067.
Indo Overseas Metalware, 72-74, Kika St., Bombay 400004.
International Metal Ind., 128, Kansara Chawl, Bombay 400002.
Jain Metal Ind., 157, Panjrapole Rd., Bombay 400004.

DEVIDAYAL STAINLESS STEEL INDUSTRIES PRIVATE LIMITED

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Tulsiram Gupta Mills, Darukhana,
Reay Road, Bombay 400 010.
Phone : 395041.

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Local Sales Office :
39, 2nd Bhoiwada, Bombay 400 002.
Phone : 336241.

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Jajodia Alloy Steel Co., 63/69, Nagdevi Cross Lane, Bombay 400003.

Jay Metal Ind., H. Bapu Rd., Devchand Nagar, Malad (East), Bombay 400064.

Jogani Metal Ind., Prabhu Niwas, 148-A, V. Patel Rd., Bombay 400004.

Kanti Impex Trading Co., 125, N. Master Rd., Fort, Bombay 400001.

KC Metal Ind., 14/1, Jaihind Estate, Bhuleshwar, Bombay 400002.

Kishco Cutlery Manufg. Co., 54/56, Empire Bldg., 138, Dr. D. Naoroji Rd., Bombay 400001.

K. R. Metal Ind. (Pvt.) Ltd., C. Ashok Rd., Ashok Nagar, Kandivli (East), Bombay 400067.

Kwality Steel Corpn., Reti Bunder, Darukhana, Bombay 400010.

Lakhi Trading Co., Lakhi Ind. House, L. B. Shastri Marg, Bhandup, Bombay 400078.

Lallubhai Amichand Pvt. Ltd., 48/50, Kansara Chawl, Bombay 400002.

Lucky Stainless Steel Works, G-70, Sarvodaya Nagar, Panjrapole Rd., Bombay 400004.

Mahavir Metal Ind., 12, Gala Ind. Estate, Mulund (West), Bombay 400080.

Mahendra Metal Works, G-73, Sarvodaya Nagar, Panjrapole Rd., Bombay 400004.

Mitsui & Co. Ltd., (Mitsui Bussan Kaisha Ltd.), Manek Mahal, V. Nariman Rd., Bombay 400020.

Nagpal Private Ltd., 303, Arun Chambers, Tardeo Rd., Bombay 400034.

National Metal Ind., 15-A, Parel Village Rd., Parel, Bombay 400012.

N. M. Metal Ind., 20, Dadysett Agiary Lane, Bombay 400002.

Oriental Metal Pressing Works Pvt. Ltd., 131, Worli, Bombay 400018.

Paramount Stainless Co., 10, Gurukul Chambers, Mumbadevi Rd., Bombay 400002.

Parmar Products, 7, Mamlatdarwadi, Malad, Bombay 400064.

Pearl Metal Works, 20, Wadi Bunder Rd., Mazagon, Bombay 400010.

Pitambardas Lallubhai & Co., 86, Kansara Chawl, Bombay 400002.

Popular Metal Works & Rolling Mills, Sion, Bombay 400022.

Premier Ind. Corpn., 16, Nana Shanker Seth Smriti, 380, J. S. Sett Rd., Bombay 400002.

Ramkishan Metal Works (Bombay), 32-34, Ashok Chambers, Broach St., Bombay 400009.

Ramkishan Metals Corpn., 138, Kalbadevi Rd., Bombay 400002.

R. K. Ind., 12/18, V. Patel Rd., Bombay 400004.

R. Navinchandra & Co., Balkrishna Niwas, Panjrapole Rd., Bombay 400004.

Rasiklal Kantilal & Co., 145, Kika St., Bombay 400004.

Rose Metal Ind., G.77, Sarvodaya Nagar, Panjrapole Rd., Bombay 400004.

Sanghvi Non-Ferrous Metal Ind., 159/2, Akurdi, Near Chinchwad Rly. Stn., Bombay Poona Rd., Pune 411019.

Shah Metal Pressing Works, 201, Khetwadi Main Rd., Bombay 400004.

Shri Krishna Metal Works, C/o Shri Krishna Sales Corpn., G-89, Sarvodaya Nagar, 1st Panjrapole Lane, Bombay 400004.

Suresh & Co., 501, Loha Bhavan, Frere Rd., Bombay 400009.

Suresh Metal Ind., V. Madhavji Rd., Pahadi, Goregaon (East), Bombay 400063.

Thakoor Metal Ind., 41-A, Chakala Rd., Andheri, Bombay 400069.

Uni Abex Alloy Products Ltd., Liberty Bldg., N. Marine Lines, Bombay 400020.

Vaidya Metal Pressing Works, 10-A, Tata Mills Comp., Near Elphinstone Bridge, Parel, Bombay 400012.

Vajeram Devchand & Bros., 21/23, Chira Bazar, Vijaywadi, Bombay 400002.

Vijay Metal Works, 'Ramkrupa', 25, Parekh St., Girgaum, Bombay 400004.

Vinay Metal Ind., 29-C, Sarvodaya Nagar, Panjrapole Rd., Bombay 400004.

Vinod Stainless Steel Works, 53, 2nd Bhoiwada, Bombay 400002.

Wikas Metal Works, Udyog Dham, L. B. Shastri Marg, Vikhroli, Bombay 400083.

Orissa

Kishore Ind., Station Rd., Berhampur 760001.

Mamchand Manilal, Post Jharsuguda, Sambalpur Dist. 768001.

Punjab

Balli Singh Bhagwan Singh, Bazar Kasera, Amritsar 143001

Mital Ind. (Solan), Mital Udyog Bldg., Ladowali Rd., Jullundur 144001.

Kuldip Ind., Kuldip Nivas, Main Bazar, Pathankot 145001.

Tamil Nadu

Mysore Premier Metal Factory, 127, Mint St., Madras 600001.

S. D. & Sons, 16, Lakmudas St., Park Town, Madras 600003.

Sri M. V. M. Stores, Kumbeswarar Sannadhi, Kumbakonam 612001.

Uttar Pradesh

Mital Rolling Mills, Budh Bazar, Moradabad 244001.

M. S. Gupta & Bros., Rishikul Rd., Moradabad 244001.

West Bengal

Ashok Metal Ind. Ltd., 157, N. Subash Rd., Calcutta 700001.

Bengal Ind. Corpn., 11, J. Jalan Rd., Lillooah (Howrah).

Bombay Stainless Steel House, P-37A, Kalakar St., Calcutta 700007.

Chandra Ind., 59, Cotton St., Calcutta 700007.

Jain Ind., 195/1, M. Gandhi Rd., Calcutta 700007.

New India Metal Ind., 139, Banares Rd., Salkia-Howrah.

Shree Shanker Ind. Pvt. Ltd., 29, Sir H. Goenka St., Calcutta 700007.

STEEL STRIPS

Graham Firth Steel Products (India) Ltd., Western Express Highway Goregaon (East), Bombay 400063,

STEEL TUBES

Uni Abex Alloy Products Ltd., Liberty Bldg., N. Marine Lines, Bombay 400020.

STEEL TUBULAR POLES ETC.

Jaibharat Poles Manufg. & Engg. Co., 4-5, Ind. Est., Vadodara 390003.

Steelfabs Engg. Corpn., 5, Ismail Bldg., 381, Dr. D. Naoroji Rd., Bombay 400001.

STEEL WINDOWS & DOORS, ROLLING SHUTTERS, COLLAPSIBLE GATES, GRILLS ETC.

Andhra Pradesh

Hyderabad Allwyn Metal Works Ltd., Sanatnagar, Hyderabad 500018.

Bihar

Behar & Sabhin Engg. Works, Katihar 854105.

Stanly Rolling Shutters & Engg. Works, Gosaitola, Patna 800013.

Delhi

Anand Ind., 31-5, New Rohtak Rd., New Delhi 110005.

Indian Rolling Shutters & Engg. Works, 63, Rani Jhansi Rd., New Delhi 110055.

Machinewell Ind., 9-A, Connaught House, New Delhi 110001.

Metal Windows Corpn., 29-1, New Rohtak Rd., New Delhi 110005.

New Era Steel Co. (Opp. Mercantile Bank), Chandni Chowk, Delhi 110006.

Prakash & Co. (Regd.), 48, M.M. Rd., New Delhi 110055.

Gujarat

AGEW Steel Manufrs. Pvt. Ltd., 522/1 Outside Panchkuva Gate, Ahmedabad, 380002.

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Mr. M. M. Menon (Nominee of I. F. C.)

Ahmedabad Steelcrafts & Rolling Mills, Outside Sarangpur Gate, Ahmedabad 380018.

Doors & Windows Pvt. Ltd., 80, Ind. Estate, Udhna.

General Engg. Group, Haribhakti Wadi, Timber Market Rd., Vadodara 390001.

Sarvodaya Rolling Shutters & Engg. Works, Rakhial Rd., Ahmedabad 380021.

Vishwakarma Rolling Shutters Manufg. Co., Ghee Kanta Rd., Ahmedabad 380001.

Karnataka

Kohinoor Rolling Shutters & Engnrs. Pvt. Ltd., 35, S. Chatram Rd., Bangalore 560009.

United Mysore Metal Works, B-79, Ind. Estate, Bangalore 560010.

Vijaya Trdg. Co., 306, S. Chatram Rd., Bangalore 560009.

Madhya Pradesh

Madhya Bharat Metal Pressing & Engg. Works, Makks Rd., Ujjain 456001.

Maharashtra

Acrow India Ltd., Wallace Mills Comp., 24, N. Bharucha Rd., Bombay 400007.

Balmer Lawrie & Co. Pvt. Ltd., Graham Rd., B. Estate, Bombay 400038.

Beclawat of India Pvt. Ltd., 32-34, V. Nariman Rd., Bombay 400001.

B. R. Hermann & Mohatta (India) Pvt. Ltd., Mustafa Bldg., Sir P. Mehta Rd., Bombay 400001.

Breeze Window Manufg. Co., Subash Estate, S. Vivekanand Rd., Bombay 400060.

Crittal Manufg. (India) Pvt. Ltd., Hamilton House, Graham Rd., Bombay 400038.

Eastern Rolling Shutters Manufg. Co., 123-A, Rehman St., Bombay 400003.

Fine Rolling Shutters Manufg. Co., 124, Dr. M. G. Mahimtura Marg, Bombay 400004.

Ganesh Engg. Works, 170, Reay Rd., Bombay 400010.

Godrej & Boyce Manufg. Co. Pvt. Ltd., Lalbaug, Bombay 400012.

Hercules Rolling Shutters Pvt. Ltd., 11, Saki Vihar Rd., Bombay 400070.

Hind Tank Manufg. Co., 6th Kumbharwada Lane, Bombay 400004.

J. K. Nadar Grill Works, J. Nadar Estate, Lake Rd., Bombay 400078.

Jay Kay Steel Fabricators, Universal Founder's Comp., Mogra Rd., Andheri (East), Bombay 400069.

Metal Folds, 45-47, Apollo St., Bombay 400001.

Metal Window Manufg. Co., 117, Clive Rd., Bombay 400009.

Navbharat Rolling Shutters & Engg. Works, Station Rd., Parel, Bombay 400013.

Sen Harvic, 37, A. Rehman St., Bombay 400003.

Sentinel Windows & Structurals Pvt. Ltd., 96, Bora Bazar St., Bombay 400001.

Shrikant Engg. Corpn., 41, Ind. Estate, Cuttekadi, Pune 411009.

Shubh Engg. Corpn., 15, Bank St., Bombay 400001.

Shubhdwar Rolling Shutters & Engg. Works, Bank St., Bombay 400001.

Steelage Ind. Pvt. Ltd., Mount Rd., Bombay 400010.

Swastik Rolling Shutters & Engg. Works, Ram Mandir Rd., Goregaon, Bombay 400063.

Venus Rolling Shutters & Engg. Works, B.T. Camp, Malad, Bombay 400064.

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Phone : 88551.

Zenith Iron Works, A. Rehman St., Bombay 400003.

Punjab

Chawla Rolling Shutters Ind., Opp. P.O. Rly. Rd., Jullundur 144001.

Rajasthan

Rajasthan Iron & Steel Manufg. Works, 1-B, Ind. Estate, Jaipur 302001.

Tamil Nadu

Diana Rolling Shutters (Madras), Walltax Rd., Madras 600001.

Nirmal Engg. Works, 9, K. Mudaliar Rd., Coimbatore 641001.

Uttar Pradesh

Allahabad Rolling Shutter Works, Triveni Rd., Allahabad 211001.

Vanguard Rolling Shutters & Steel Works, Belaganj, Agra 282001.

United Rolling Shutter Manufrs., Khandak, Meerut 250001.

West Bengal

Calcutta Collapsible Gate Co. Ltd., 77, N. Subash Rd., Calcutta 700001.

Commercial Medium Pvt. Ltd., 51, Chittaranjan Ave., Calcutta 700012.

Dhariwal Rolling Shutters & Engg. Works, 109, N. Subash Rd., Calcutta 700012.

Diana Rolling Shutters & Engg. Works, 8, Stephen House, Dalhousie Sq., Calcutta 700001.

Hind Collapsible Gate Co., 42/2, N. Subash Rd., Calcutta 700040.

Hopes Metal Windows Ltd., Transport Depot Rd., Calcutta 700027.

Imperial Gate & Grill Works, 133, Beliaghata Rd., Calcutta 700015.

India Collapsible Gate Co., 23, Picnic Garden Rd., Calcutta 700029.

Khemchand Raj Kumar, 33, N. Subash Rd., Calcutta 700001.

M. P. Corpn., 54/1, Surya Sen St., Calcutta 700009.

Multiwyn Ind. Corpn., 61, Muktaram Babu St., Calcutta 700007.

Steelwyn Corpn., P/11, Chitpur Spur, Calcutta 700007.

STEEL WIRE & WIRE ROPES

Bihar

Indian Steel & Wire Products Ltd., Post Indranagar, Jamshedpur 831008.

Delhi

Hindustan Kokoku Wire Ltd., 22-B, Himalaya House, K. Gandhi Marg, New Delhi 110001.

Gujarat

C. Prabhudas & Co. Pvt. Ltd., Mehta Chambers, M. Gandhi Rd., Bhavnagar 364001.

Navsari Processing Ind. Pvt. Ltd., Near Rly. Stn., Maroli (W. Rly.).

Kerala

Aluminium Ind. Ltd., No. 1, Ceramic Factory Rd., Kundara.

Madhya Pradesh

Anand-Bahri Steel & Wire Products, Ind. Estate, Bilaspur Rd., Raipur 492001.

Maharashtra

Bombay Wire Ropes Ltd., 401/405, Jolly Bhavan No. 1, 10, New Marine Lines, Bombay 400020.

BR Steel Products Pvt. Ltd., 29-30, Vaswani Mansion, D. Vachha Rd., Bombay 400020.

Devidayal Cable Ind. Ltd., Gupta Mills Estate, Reay Rd., Bombay 400010.

Eldee Wire Ropes Pvt. Ltd., Eldee Chambers, 3, Broach St., Bombay 400009.

Evergreen Wirecloth Factory, 151, Princess St., Bombay 400002.

H. H. Shroff & Co., 1391, Adarsh Nagar, Bombay 400025.

Hindusthan Wire Netting Co. Pvt. Ltd., Agra Rd., Thana 400601.

Krips Consultants, 301, Kakad Chambers, 132, Dr. A. Besant Rd., Worli, Bombay 400018.

Multiweld Wire Co. Pvt. Ltd., 59, Marol-Maroshi Rd., Bombay 400059.

National Standard Duncan Ltd., Nirmal 241/242, Nariman Point, Bombay 400020.

Special Steels Ltd., Dattapara Rd., Borivli (East), Bombay 400066.

Tejpauls Pvt. Ltd., 225, S. Tukaram Rd., Bombay 400009.

Tensile Steel Ltd., Shah House, Shiv Sagar Estate, Dr. A. Besant Rd., Bombay 400018.

Tamil Nadu

Indian Steel Rolling Mills Ltd., Oriental Bldg., 108, Armenian St., Madras 600001.

Uttar Pradesh

Associated Ind. Corpn., 39 Factory Area Fazalganj, Kanpur 208001.

West Bengal

AVJ Wires Pvt. Ltd., 28, Strand Rd., Calcutta 700001.

Bright Wires Ltd., 1/A, Vansittart Row, Calcutta 700001.

Chaliha Rolling Mills Pvt. Ltd., 5, Mission Row, Calcutta 700001.

Guest, Keen, Williams, Ltd., 97, Andul Rd., Howrah 711103.

Hind Wire Ind. Ltd., P-16, Kalakar St., Calcutta 700007.

Hindustan Wires Ltd., 16/5, Chowringhee Rd., Calcutta 700013.

Shalimar Ind. Pvt. Ltd., 25, G. Chandra Ave., Calcutta 700013.

Usha Martin Black (Wire Ropes) Ltd., 14, Princep St., Calcutta 700013.

Wire Machinery Manufg. Corpn. Pvt. Ltd., 1/A, Vansittart Row, Calcutta 700001.

STRUCTURALS

Richardson & Cruddas (1972) Ltd., Byculla Iron Works, Bombay 400008.

SUGAR MACHINERY

Backau Wolf New India Engg. Works Ltd., Pimpri, Pune 411018.

G. R. Engg. Works Pvt. Ltd., G.R. House, 86, M. Vasanji Rd., Bombay 400059.

Larsen & Toubro Ltd., L & T House, Ballard Estate, Bombay 400038.

Richardson & Cruddas (1972) Ltd., Byculla Iron Works, Bombay 400008.

SUGAR MILLS

Andhra Pradesh

Amadalavalasa Co-op. Agricultural & Ind. Society Ltd., No. A-300 Amadalavalasa, Srikakulam Dist.

Anakapalle Co-op. Agricultural & Ind. Society Ltd., Thummapala, P.O., Anakapalle, Visakhapatnam Dist.

Andhra Sugars Ltd., P.B. 2, Venkatarayapuram, West Godavari Dist.

Challapalli Sugar Ltd., Lakshmipuram Taluk, Krishna Dist.

Chittor Co-op. Sugars Ltd., P.B. 42, Chittor Dist.

Chodavaram Co-op. Agricultural & Ind. Society Ltd., Chodavaram Taluk, Visakhapatnam Dist.

Deccan Sugar & Abkhari Co. Ltd., Samalkot, East Godavari Dist.

Etikoppaka Sugar Factory, Darlapudi, Visakhapatnam Dist.

Kirlampudi Sugar Mills Ltd., Pithapuram, East Godavari Dist.

K. C. P. Ltd., Sugar Factory, Vuyyuru, Krishna Dist.

Nizamabad Co-op. Sugar Factory Ltd., Sarangpur Nizamabad Dist.

Nizam Sugar Factory Ltd., Fateh Maidan Rd., Shakarnagar, Nizamabad Dist.

Palakol Co-op. Agricultural & Ind. Society Ltd., Pulapalli, West Godavari Dist.

Shri Rama Sugars & Industries Ltd., Seethanagaram, Srikakulam Dist.

Shri Sarvaraya Sugar Ltd., Chelluru, Ramachandrapuram, Taluk, East Godavari Dist.

Sivakami Sugars Ltd., Paidiparru, Tadepalligudem Rd., East Godavari Dist.

Thandava Co-op. Agricultural & Ind. Society Ltd., Payakaraopeta, Visakhapatnam Dist.

V. V. S. Sugars, Chagallu Kovvur Taluk, West Godavari Dist.

Assam

Assam Co-op. Sugar Mills Ltd., Varua Bamungaon, Sibsagar 785640.

Bihar

Belsund Sugar Co. Ltd., P.O. Righa, Muzaffarpur Dist.

Bharat Sugar Mills Ltd., Sidhwalia, Saran Dist.

Bihar Sugar Works, Pachrukhi, Saran Dist.

Cawnpore Sugar Works Ltd., P.O. Marhowrah, Saran Dist.

Champaran Sugar Co. Ltd., Chanpatia, Champaran Dist.

Champaran Sugar Co. Ltd., P.O. Bara-chakia, Champaran Dist.

Guraru Chini Mills, Guraru, Gaya Dist.

Ganga Deshi Sugar Factory Ltd., Buxar, 802101.

Harinagar Sugar Mills Ltd., P.O. Harinagar, Champaran Dist.

Lohat Sugar Works, P.O. Lohat, Darbhanga Dist.

Mihini Sugar Mills Ltd., P.O. Warisaliganj, Gaya Dist.

Motihari Sugar Factory, Motihari (Champaran Dist.) 845401.

Motilal Padampat Sugar Mills Co. Pvt. Ltd., P.O. Majhaulia, Champaran Dist.

Motipur Sugar Factory Pvt. Ltd., Motipur, Muzaffarpur Dist.

New India Sugar Mills Ltd., P.O. Hasanpur, Darbhanga Dist.

New Savan Sugar Mills, Siwan (Saran Dist.) 841226.

New Swadeshi Sugar Mills Ltd., Narkaliaganj, Champaran Dist.

North Bihar Sugar Mills Ltd., P.O. Bagaha, Champaran Dist.

North Bihar Sugar Mills Ltd., P.O., Ryam Factory Darbhanga Dist.

Purnea Co-op. Sugar Factory Ltd., Banmankhi, Purnea Dist.

Rohtas Ind. Ltd., P.O. Dalmianagar, Shahabad Dist.

Sakri Sugar Works, P.O. Sakri, Darbhanga Dist.

Samastipur Central Sugar Co. Ltd., Samastipur (Darbhanga Dist.) 848101.

Sasa Musa Sugar Works Pvt. Ltd., P.O., Sasa Musa, Saran Dist.

Sitlapur Sugar Works Ltd., Garaul, Musaffarpur Dist.

S. K. G. Sugar Ltd., P.O. Hathua, Saran Dist.

S. K. G. Sugar Ltd., P.O. Lauria, Champaran Dist.

S. K. G. Sugar Ltd., P.O. Siwan (Saran Dist.) 841226.

South Bihar Sugar Mills Ltd., Bihta, Patna Dist.

Sugauli Sugar Works Pvt. Ltd., Sugauli, Champaran Dist.

Vishnu Sugar Mills Ltd., Gopalganj, Saran Dist.

Delhi

Ganga Sugar Corpn. Ltd., National Insurance Bldg., 5, Parliament St., New Delhi 110001.

Gujarat

Chalthan Surat Vibhag Sahakari Khand Udyog Mandli Ltd., Chalthan, Surat Dist.

Charotar Sahakari Khand Udyog Mandli Ltd., Charotar, Surat Dist.

Sahakari Khand Udyog Mandal Ltd., Gandevi, Valsad Dist.

Shree Bileshwar Khand Udyog Khedut Sahakari Mandli Ltd., Kodinar, Amreli Dist.

Shree Una Taluka Sahakari Khand Udyog Mandli Ltd., Una, Junagadh Dist.

Shri Khedut Sahakar Khand Udyog Mandli Ltd., P.O. Bardoli (Surat Dist.) 394601.

Shri Madhi Vibhag Khand Udyog Sahakari Mandli Ltd., Madhi, Surat Dist.

Haryana

Haryana Co-op. Sugar Mills Ltd., Circular Rd., Rohtak 124001.

Panipat Co-op. Sugar Mills Ltd., Gohana Rd., Panipat, Karnal Dist.

Saraswati Sugar Mills, P.O. Yamunanagar, Ambala Dist.

Karnataka

Bellary Central Co-op. Stores Ltd., Sugar Factory, Kampli, Hospet Taluk, Bellary Dist.

Bidar Sahakara Sakhare Karkhane Ltd., Bidar, Hallikhed Village, Bidar Dist.

India Sugars & Refineries Ltd., Hospet 583201.

Krishna Sugar Mills Ltd., Krishna Kittur, Belgaum Dist.

Mysore Sugar Co. Ltd., Mandya 571401.

Pandavapura Sahakara Sakhar Karkhana Ltd., Pandavapura R.S., Mandya Dist.

Salar Jung Sugar Mills Ltd., Munirabad R.S., Raichur Dist.

Shri Hiranyakeshi Sahakari Sakhar Karkhana, Shankeshwar, Belgaum Dist.

Tungabhadra Sugar Works, P.B. 2, Shimoga Dist.

Ugar Sugar Works Ltd., Ugar Khurd, Belgaum Dist.

Kerala

Co-op. Sugar Ltd., Chittur, Menanpara, Palghat Dist.

Mannam Sugar Mills Co-op. Ltd., No. 4324, P.O., Pandalam, Alleppy Dist.

Travancore Sugar & Chemicals Ltd., Valanjavattam, Tiruvalla 689104.

Madhya Pradesh

Bhopal Sugar Ind. Ltd., Sehore, Sehore Dist.

Gwalior Sugar Co. Ltd., P.O. Dabra, Gwalior Dist.

Jaora Sugar Mills Pvt. Ltd., Jaora, Ratlam Dist.

Jiwaji Rao Sugar Co. Ltd., Dalanda, Mandsaur Dist.

Maharani Parvati Sugar Mills Ltd., P.O., Sarangpur.

Seth Govindram Sugar Mills, P.O. Mahidpur Rd., Ujjain Dist.

Shree Vikram Sugar Mills Ltd., Alote.

Sri Lakshmi Narayan Sugar Works Ltd., Harpalpur, Alipura Dist.

Maharashtra

Ashok Sahakari Sakhar Karkhana Ltd., P.O. Ashokenagar, Kanegaon Factory, Shrirampur 413709. Ahmednagar Dist.

Belapur Sugar & Allied Ind. Ltd., Harigaon, Ahmednagar Dist.

Bhogwati Sahakari Sakhar Karkhana Ltd., Shahunagar, Kolhapur Dist.

Brihan Maharashtra Sugar Syndicate Ltd., P.O. Shreepur Taluka, Malsiras, Sholapur Dist.

Gangapur Sahakari Sakhar Karkhana Ltd., Gangapur, Aurangabad Dist.

Girna Sahakari Sakhar Karkhana Ltd., Dabhadi, Nasik Dist.

Godavari Sugar Mills Ltd., Sakarwadi, Ahmednagar Dist.

Hindustan Sugar Mills Ltd., 51, M. Gandhi Rd., Bombay 400001.

Kalambar Vibhag Sahakari Sakhar Karkhana Ltd., Ghandhinagar, Nanded Dist.

Kolhapur Sugar Mills Ltd., Kasaba Bavada, Kolhapur Dist.

Kopargaon Sahakari Sakhar Karkhana Ltd., Via Suregaon Taluka, Ahmednagar Dist.

Krishna Sahakari Sakhar Karkhana Ltd., Rathare Sudruk Post, Shivnagar, Satara Dist.

Kumbhi Kasari Sahakari Sakhar Karkhana Ltd., Kuditne, Kolhapur Dist.

Maharashtra Sugar Mills Ltd., P.O. Tilaknagar, Shrirampur, Ahmednagar Dist.

Malegaon Sahakari Sakhar Karkhana Ltd., Malegaon 423203, Pune Dist.

Nipad Sahakari Sakhar Karkhana Ltd., Bhausahebnagar, Nasik Dist.

Phaltan Sugar Works Ltd., Sakharwadi, Satara Dist.

Pravara Sahakari Sakhar Karkhana Ltd., Pravaranagar, Ahmednagar Dist.

Rahuri Sahakari Sakhar Karkhana Ltd., Shri Shivajinagar, Ahmednagar Dist.

Ravalgaon Sugar Farm Ltd., Ravalgaon, Nasik Dist.

Sangamner Bhag Sahakari Sakhar Karkhana Ltd., Sangamner, Ahmednagar Dist.

Sanjivani (Takle) Sahakari Sakhar Karkhana Ltd., P.O. Sahajanandnagar, Ahmednagar Dist.

Saswad Mali Sahakari Sakhar Karkhana Ltd., P.O. Malinagar, Sholapur Dist.

Satara Sahakari Sakhar Karkhana Ltd., Bhun, Satara Dist.

Shetkari Sahakari Sakhar Karkhana Ltd., Sangli 416416.

Shree Dudhganga Vedganga Sahakari Sakhar Karkhana Ltd., Bidri, Kolhapur Dist.

Shree Panchganga Sahakari Sakhar Karkhana Ltd., Ganganagar, Kolhapur Dist.

Shree Shankar Sahakari Sakhar Karkhana Ltd., Sadashivnagar, Sholapur Dist.

Shree Warana Sahakari Sakhar Karkhana Ltd., Warananagar, Kolhapur Dist.

Shri Changdeo Sugar Mills Ltd., P.O. Puntamba, Ahmednagar Dist.

Shri Chhatrapati Shivaji Sahakari Sakhar Karkhana Ltd., Bhavaninagar, Pune Dist.

Shri Ganesh Sahakari Sakhar Karkhana Ltd., P.O. Rajengaon Taluka 1, Kopargaon, Ahmednagar Dist.

Shri Panzarakan Sahakari Sakhar Karkhana Ltd., Bhadane, Dhulia Dist.

Shri Someshwar Sahakari Sakhar Karkhana Ltd., Nira, Pune Dist.

Shrigonda Sahakari Sakhar Karkhana Ltd., P.O. Belvandi Sugar Farm, Ahmednagar Dist.

Shriram Sahakari Sakhar Karkhana Ltd., Phaltan, Satara Dist.

Somaiya Sugar Factory, Lakshmiwadi, Via Kopargaon, Ahmednagar Dist.

Tarna Shetkari Sahakari Karkhana Ltd., Tarnanagar, P.O. Dhoki, Osmanabad Dist.

Walawa Taluka Sahakari Sakhar Karkhana Ltd., Sakharle, P.O. Islampur, Sangli Dist.

Walchandnagar Ind. Ltd., P.O. Walchandnagar, Pune Dist.

Yeshwant Sahakari Sakhar Karkhana Ltd., Chintamaninagar, P.O. Theur, Pune Dist.

Yeshwant Sahakari Sakhar Karkhana Ltd., Yeshwant Nagar, Akluj, Sholapur Dist.

Pondicherry

New Horizon Sugar Mills Pvt. Ltd., P.O. Kandamangalam, Sacrur (Ariyur).

Punjab

Amritsar Sugar Mills Co. Ltd., G. Trunk Rd., Amritsar 143001.

Batala Co.-op. Sugar Mills Ltd., Batala 143505, Gurdaspur Dist.

Doaba Co-op. Sugar Mills Ltd., Nawanshahr, Jullundur Dist.

Jagatjit Sugar Mills Co. Ltd., Phagwara, Kapurthala Dist.

Janta Co-operative Sugar Mills Ltd., Bhogpur Sriwal, Jullundur Dist.

Malwa Sugar Mills Co. Ltd., Dhuri, Sangrur Dist.

Morinda Co-op. Sugar Mills Ltd., Morinda, Rupar Dist.

Rajasthan

Ganganagar Sugar Mills Ltd., Sri Ganganagar Dist.

Mewar Sugar Mills Ltd., Bhupalsagar, Chitorgarh Dist.

Shree Bijoy Sugar Mills Ltd., Bijainagar, Ajmer Dist.

Shri Keshoraipatan Sahakari Sugar Mills Ltd., Bund Rd., Keshoraipatan.

Tamil Nadu

Al. Vr. St. Sugar Mills & Distillery, Techanallur, Tinnevelly Dist.

Amaravathi Co-op Sugar Mills Ltd., Maivadi Rd., R.S., P.O. Krishnapuram, Coimbatore Dist.

Ambur Co-op. Sugar Mills Ltd., P.O. Vadapudupet *via* Jolarpettai, North Arcot Dist.

Arooran Sugars Ltd., Vadapathimangalam, Thanjavur Dt.

Aruna Sugars Ltd., Eraiyur, South Arcot Dist.

Cauvery Sugar & Chemicals Ltd., Pettaivaytalai, Thiruchirapalli Dist.

Deccan Sugar & Abkhari Co. Ltd., P.O. Pugalur Sugar Factory, Thiruchirapalli Dist.

E. I. D. Parry Ltd., Nellikuppam, South Arcot Dist.

Kallakurichi Co-op. Sugar Mills Ltd., Moongilthuraippatu, Thiruvannamalai 606601.

Kothari Sugar & Chemicals Ltd., Kattur, Thiruchirapalli Dist.

Lakshmi Sugar Mills, Near Lakshmanatope, Tiruchendur Taluk, Tinnevelly Dist.

Madurantakam Co-op. Sugar Mills Ltd., P.O. Padalam, Chingleput Dist.

Madura Sugars Ltd., Pandiarajapuram, Madurai Dist.

National Co-op. Sugar Mills Ltd., 15-B, Mettupatti, P.O. Alanganallur, Madurai Dist.

Palar Sugar Pvt. Ltd., P.O. Sakthinagar *via* Erode, Coimbatore Dist.

Sakthi Sugars Ltd., P.O. Sakthinagar *via* Erode, Coimbatore Dist.

Salem Co-op. Sugar Mills Ltd., Pettaipalayam, Salem Dist.

South India Steel & Sugar Ltd., Mundiyampakkam, South Arcot Dist.

Uttar Pradesh

Ajudhia Sugar Mills, P.O. Rajaka Sahaspur, Moradabad Dist.

Amritsar Sugar Mills Co. Ltd., P.O., Rohanakalam, Muzaffarnagar Dist.

Bagpat Co-op. Sugar Mills Ltd., Bagpat, Meerut Dist.

Baijnath Balmukund Sugar Mills, Anwarganj, Kanpur Dist.

Balrampur Sugar Co. Ltd., Balrampur, Gonda Dist.

Basti Sugar Mills Co. Ltd., Basti 272001.
Bazpur Co-op. Sugar Factory Ltd., Bazpur, Nainital Dist.
Burhwal Sugar Mills Co. Ltd., P.O. Burhwal, Barabanki Dist.
Cawnpore Sugar Works Ltd., P.O. Gauri Bazar, Deoria Dist.
Daurala Sugar Works, Daurala, Meerut Dist.
Deoria Baitalpur Sindhi Sugar Mills Ltd., Deoria 274001.
Deoria Sugar Mills Ltd., Deoria 274001.
Dhampur Sugar Mills Ltd., Dhampur, Bijnor Dist.
Diamond Sugar Mills Ltd., Pipraich, Gorakhpur Dist. *H. Q.:* 4-E, Dalhousie Sq., 28, Stephen House, Calcutta.
Experimental Sugar Factory, National Sugar Institute, Nawabganj, Kanpur Dist.
Ganesh Sugar Mills, P.O. Anandnagar, Gorakhpur Dist.
Ganga Sugar Corpn. Ltd., Deoband, Saharanpur Dist.
Ganga Sugar Corpn. Ltd., Ram Kola, Deoria Dist.
Gobind Sugar Mills Ltd., P.O. Aira Estate, Lakhimpuri Kheri Dist.
Hindustan Sugar Mills Ltd., Gola Gokarannath, Kher Dist.
H. R. Sugar Factory Pvt. Ltd., Bareilly 243001.
Ishwari Khetan Sugar Mills Pvt. Ltd., Lakshmiganj, Deoria Dist.
Jaswant Sugar Mills Ltd., Meerut City, Meerut 250001.
Kamlapat Motilal Motinagar Sugar Mills, Motinagar P.O., Faizabad 224001.
Kesar Sugar Works Ltd., Beheri, Bareilly Dist. *H. O.:* New Great Insurance Bldg., 7, J. Tata Rd., Bombay 400020.
Kisan Co-op. Sugar Factory Ltd., Majhola, Pilibhit Dist.
Kisan Co-op. Sugar Factory Ltd., Sarsawa, Saharanpur Dist.
Kundan Sugar Mills Pvt. Ltd., P.O. Kundannagar, Moradabad Dist.
Lakhmi Devi Sugar Mills Pvt. Ltd., Chhitauni, Deoria.
Lakhmi Sugar & Oil Mills Ltd., Hardoi, Hardoi Dist. 241001.
Lakhmiji Sugar Mills Co. Pvt. Ltd., Maholi, Sitapur Dist.
L. H. Sugar Factories & Oil Mills Pvt. Ltd., Kashipur, Nainital Dist.
L. H. Sugar Factories and Oil Mills Pvt. Ltd., Pilibhit, Pilibhit Dist. 262001.
Lord Krishna Sugar Mills Ltd., Saharanpur 247001. *H. O.:* Chand Hotel, Chandni Chowk, New Delhi.
Madho Mahesh Sugar Mills Pvt. Ltd., Munderwa, Basti Dist.
Mahabir Sugar Mills Pvt. Ltd., Siswa Bazar, Gorakhpur.
Mahalakshmi Sugar Mills Co. Ltd., Iqbalpur, Saharanpur Dist.
Maheswari Khetan Sugar Mills Pvt. Ltd., Ramkola, Deoria Dist.
Mawana Sugar Works, Mawana, Meerut Dist.
Modi Sugar Mills, Modi Nagar, Meerut Dist.
M.P. Sugar Mills Pvt. Ltd., Gutaiya, P.B. 69, Kanpur.
Nawabganj Sugar Mills Co. Ltd., Nawabganj, Gonda Dist.
Neoli Sugar Factory, Manpur, Nagaria, P. O. Neoli, Etah Dist.
Oudh Sugar Mills Ltd., Hargaon, Sitapur Dist. *R. O.:* Industry House, 159, Churchgate Recl., Bombay 400020.
Pannijee Sugar & General Mills Co., Panninagar, Bulandshahr Dist.
Punjab Sugar Mills Co. Ltd., Ghugli, Gorakhpur Dist.
Purtabpore Co. Ltd., Pratappur, Deoria Dist.
Rai Bahadur Narain Singh Sugar Mill Pvt. Ltd., Lhaksar, Saharanpur Dist.
Ratna Sugar Mills Co. Ltd., Shahganj, Jaunpur.
Raza Buland Sugar Co. Ltd., Rampur 244901.
R. B. Lachman Das Sugar & General Mills Pvt. Ltd., P.O. Jarwal Rd., Bahraich Dist. *H. O.:* 11, A. P. Sen Rd., Lucknow.
Rosa Sugar Works, Rosa, Shahjahanpur Dist.
Saraya Sugar Mills Pvt Ltd., Sardarnagar, Gorakhpur Dist.
S. B. Sugar Mills, Bijnor Dist.
Seksaria Biswan Sugar Factory Pvt. Ltd., Biswan, Sitapur Dist.
Seksaria Sugar Mills Pvt. Ltd., Babhnan, Gonda Dist.
Shadilal Sugar & General Mills Ltd., Mansurpur, Muzaffarnagar.
Shanker Sugar Mills Ltd., Captainganj, Deoria Dist.
Sharda Sugar & Industry Ltd., Palia Kalan, Lakhimpur, Kheri Dist.
Shree Anand Sugar Mills, Khalilabad, Basti Dist.
Shree Krishna Deshi Sugar Works, Jhusi, Allahabad.
Shree Sardar Sugar Mills Co., Ramachandri, Gorakhpur, P.O. Siswa Bazar 273001.
Shree Sitaram Sugar Co. Ltd., P.O. Baitalpur, Deoria Dist.
Shri Janki Sugar Mills & Co., Doiwala, Dehra Dun.
Simbhaoli Sugar Mills Pvt. Ltd., P.O. Simbhaoli, Meerut Dist.
Standard Refinery & Distillery Pvt. Ltd., Unnao 209801.
Tribeni Deshi Sugar Works, Naini, Allahabad Dist.
Tulsipur Sugar Co. Ltd., Sitalpur Village, P.O. Tulsipur, Gonda Dist. *R. O.:* 9/1, Ramkumar Rakhit Lane, Calcutta 700007.
United Provinces Sugar Co. Ltd., P.O. Seorahi, Deoria Dist. *R. O.:* India Exchange, Calcutta 700001.
Upper Doab Sugar Mills Ltd., Shamli, Muzaffarnagar Dist.
Upper Ganges Sugar Mills Ltd., Seohara, Bijnor Dist. *H. O.:* 21-A, Bally Gunge Place, Calcutta 700019.
Upper India Sugar Mills Ltd., Khatauli, Muzaffarnagar Dist.
U.P. State Sugar Corpn. Ltd., Barabanki Unit, Barabanki Dist.
U.P. State Sugar Corpn. Ltd., Bhatni Unit, Deoria Dist.
U.P. State Sugar Corpn. Ltd., Khadda Unit, Deoria Dist.
U.P. State Sugar Corpn. Ltd., Mohiuddinpur Unit, Meerut Dist.
U.P. State Sugar Corpn. Ltd., Sakhoti Tanda Unit, Diwan Nagar, P.O. Sakoti Tanda, Meerut Dist.
Walterganj Factory, C/o Basti Sugar Mills Co. Ltd., Walterganj, Basti Dist. *R. O.:* 3, Cavalry Lines, Delhi 110007.

West Bengal

Motihari Sugar Factory, 5, Synagogue St., Calcutta.
National Sugar Mills Ltd., Ahmedpur, Birbhum Dist.
Purtabpore Co. Ltd., 9, Brabourne Rd, Calcutta.
Ramnugger Cane & Sugar Co. Ltd., P.O. Plassey, Nadia Dist. *H. O.:* 7, Wellesely Place, Calcutta.
Shree Radha Krishna Sugar Mills Ltd., Belganga, Murshidabad Dist.
Shree Sitaram Sugar Co. Ltd., Thapar House, 25, Brabourne Rd., Calcutta.
Tulsipur Sugar Co. Ltd., 27, Vivekananda Rd., Calcutta 700007.

SURGICAL INSTRUMENTS

(See under Medical Equipment)

SURVEY INSTRUMENTS

(See Under 'Instruments—Scientific' and 'Laboratory Equipment' in this list).

SWITCHES, SWITCHGEAR & ACCESSORIES—ELECTRICAL

(Also see Electrical Switches, Switchgear & Accessories).

Andhra Pradesh

Switchgear Manufg. Co., C 4 & 5, Ind. Estate, Sanatnagar, Hyderabad 500018.

Delhi

Asea Electric India Pvt. Ltd., E-19, Defence Colony, New Delhi 110024.

Bharat Heavy Electricals Ltd., 5, Parliament St., New Delhi 110001.

Controls & Switchgear Co., 222-Okhla Ind. Estate, Phase III, New Delhi 110020.

M. C. Engineering Co. Pvt. Ltd., 220, Okhla Ind. Est., New Delhi 110020.

Gujarat

Jyoti Ltd., Ind. Area, Vadodara 390003.

Haryana

Cutler Hammer India Ltd., 20/4, Mathura Rd., Faridabad, Gurgaon Dist.

Karnataka

NGEF Ltd., Byappanahalli, Off Old Madras Rd., Bangalore 560001.

Mysore Electrical Ind. Ltd., Yeswanthpur, Tumkur Rd., Bangalore 560022.

Kerala

Aluminium Ind. Ltd., No. 1, Ceramic Factory Rd., Kundara, Quilon Dist.

United Electrical Ind. Ltd., Pallimukku, Quilon 691001.

Madhya Pradesh

Heavy Electricals India Ltd., P.O. Piplani, Bhopal 462021.

Maharashtra

Ajmera Ind. & Engg. Works, 20/48, Lohar Chawl, 9, Jai Mahal Estate, Bombay 400002.

Asea Electric India Pvt. Ltd., Asea House, Goa St., Bombay 400001.

Balson, 52/59, Annapurna, 46, Tilak Rd., Ghatkopar, Bombay 400077.

Bhogilal Fabricators Pvt. Ltd., Steelmade Ind. Estate, Bldg. No. 1, Shed No. 2, Marol Maroshi Rd., Andheri (E.), Bombay 400059.

Bombay Insulated Cables & Wires Co., 10, Himalaya House, 79, Palton Rd., Bombay 400001.

Dattatraya Ind., 691/A, Pune-Satara Rd., Pune 411009.

Hindustan Brown Boveri Ltd., Brown Boveri House, 264-265, Dr. A. Besant Rd., Bombay 400025.

Hindustan Klockner Switchgear Ltd., Prospect Chambers, 317/21, Dr. D. Naoroji Rd., Bombay 400001.

Indian Engg. Co., P. B. 16551, Worli Naka, Bombay 400018.

Kiron Textile Ind., Yusuf Bldg., M. Gandhi Rd., Bombay 400001.

Larsen & Toubro Ltd., L & T House, Dougall Rd., Ballard Estate, Bombay 400038.

Metro Electric & Mechanical Engg. Works, Hormuz Bldg., Sleater Rd., Bombay 400007.

National Supply and Distributing Agency, 11, Jay Mahal, Lohar Chawl, Bombay 400002.

Reunion Engg. Co. Pvt. Ltd., Amar Bldg., Sir P. Mehta Rd., Bombay 400001

R. G. Keswani Ind., 132, Dr. A. Besant Rd., Worli Naka, Bombay 400018.

Siemens Ltd., 134 A, Dr. A. Besant Rd., Worli, Bombay 400018.

Tata, Merlin & Gerin Ltd., Raj Mahal, 84, V. Nariman Rd., Bombay 400001.

Transacto, Devkaran Mansion, Block No. 6, Vithaldas Rd., Bombay 400002.

Voltas Ltd., 19, Graham Rd., Ballard Estate, Bombay 400038.

Punjab

Beegee Corpn., 25, Factory Area, Patiala 147002.

Tamil Nadu

Eswaran & Sons Engineers Pvt. Ltd., 5-7, Second Line Beach, Madras 600001.

Hindustan Equipment Manufrs., Krishnarayapuram, P.O. Ganapathi, Coimbatore 611008.

Southern Switchgear Ltd., Finance House, Patullo Rd., Madras 600002.

West Bengal

Andrew Yule & Co., Ltd., 77, Park St., Calcutta 700016.

Asea Electric India Pvt. Ltd., 4, Lyons Range, Calcutta 700001.

Biecco Lawrie Ltd., 21, N. Subash Rd., Calcutta 700001.

British India Electric Construction Co. Ltd., 21, N. Subash Rd., Calcutta 700001.

Electric Construction & Equipment Co. Ltd., 9, K. Singhee Rd., Calcutta 700002.

General Electric Co. of India Pvt. Ltd., Magnet House, 6, Chittaranjan Ave., Calcutta 700013.

Hooghly Marine and Engg. Co., 27/2 C, Strand Rd., Calcutta 700001.

Mookken Bros., 15/2, Armenian St., Calcutta 700001.

Techmech (India), 7, Swallow Lane, Calcutta 700001.

SYNTHETIC FIBRES

Andhra Pradesh

Sirsilk Ltd., Sirpur-Kaghaznagar.

Madhya Pradesh

Gwalior Rayon Silk Manufg. (Wvg.) Co. Ltd., P.O. Birlagram 456331.

Maharashtra

Baroda Rayon Corpn. Ltd., Great Western Bldg., 130-132, Apollo St., Bombay 400001.

Century Enka Ltd., Belvandi House, 254-B, Dr. A. Besant Rd., Worli, Bombay 400025.

Century Rayon, Industry House, 159, Churchgate Recl., Bombay 400020.

Indian Rayon Corpn. Ltd., Industry House, 159, Churchgate Recl., Bombay 400020.

National Rayon Corpn. Ltd., Ewart House, Bruce St., Bombay 400001.

Rajasthan

Shriram Rayons, Shrirampur, Ind. Area P.O., Kota 324001

Tamil Nadu

South India Viscose Ltd., Shanmuga Manram, Race Course, P.B. 1396, Coimbatore 641018.

Travancore Rayons Ltd., Indian Overseas Bank Bldg., 151-A, Mount Rd., Madras 600002.

Uttar Pradesh

J. K. Rayon, Kamla Tower, P.B. 25, Kanpur 208001.

West Bengal

Kesoram Rayon, P.O. Nayasarai, Hooghly Dist.

SYNTHETIC FIBRE SPINNERS

Delhi

Delhi Cloth & General Mills Co. Ltd., Bara Hindu Rao, Delhi 110006.

Gujarat

Gandhidham Spg. & Manufg. Co. Ltd., Adipur, Kutch.

Surat Textile Mills Ltd., Varachha Rd., Surat 395003.

Haryana

Bhiwani Textile Mills Ltd., P.O. Birla Colony, Bhiwani, Hissar Dist.

Elsons Cotton Mills Pvt. Ltd., 23rd Milestone, Mathura Rd., Ballabhgarh 121004.

Technological Institute of Textiles, P.O. Birla Colony, Bhiwani, Hissar Dist.

Jammu and Kashmir

Chenab Textile Mills Ltd., Kathua.

Karnataka

Sujata Textile Mills, Nanjangud 571301.

Madhya Pradesh

Bharat Commerce & Ind. Ltd., P.O. Birlagram 456331.

Jiyajeerao Cotton Mills Ltd., P.O. Birlanagar, Gwalior.

Maharashtra

Kiran Spg. Mills, Kolshet Rd., Thana 400601.

Madhavnagar Cotton Mills Ltd., Bank of Baroda Bldg., Palton Rd., Bombay 400001.

New City of Bombay Manufg. Co. Ltd., 63, Tukaram B. Kadam Marg, Bombay 400033.

Podar Mills Ltd., Podar Chambers, S. A. Brelvi Rd., Bombay 400001.

Raghuvanshi Mills Ltd., 11-12, Haines Rd., Delisle Rd., Bombay 400013.

Punjab

Bharat Commerce & Ind. Ltd., Rajpura, Patiala Dist.

Rajasthan

Aditya Mills Ltd., Madanganj, Kishangarh.

Jaipur Spg. & Wvg. Mills Ltd., Podarpua, Jaipur 302006.

Rajasthan Textile Mills, Bhawani Mandi.

Tamil Nadu

Narsimha Mills Pvt. Ltd., Kannampalayam, P.O. Sulur, Coimbatore Dist.

Prakash Mills Pvt. Ltd., P.O. Peelamedu, Coimbatore 641004.

Sitalakshmi Mills Ltd., Mill Premises, Madurai 625005.

Suguna Mills Pvt. Ltd., Sugunalaya, Bashkaralu Rd., R. S. Puram, Coimbatore 641002.

Vijaykumar Mills Ltd., Kalayamputhur, *via* Palani, Madurai Dist.

Uttar Pradesh

Elgin Mills Co. Ltd., 1/6, Smt. P. Bagla Rd., Kanpur 208001.

Modi Spg. & Wvg. Mills Co. Ltd., Modinagar.

Swadeshi Cotton Mills Co. Ltd., Swadeshi House, Civil Lines, Kanpur 208001.

West Bengal

Bilaspur Spg. Mills & Ind. Ltd., 5, Synagogue St., Calcutta 700001.

Birla Jute Manufg. Co. Ltd., P.O. Birlapur, 24-Parganas.

Eastern Spg. Mills Ltd., Pirgachha, P.O. Kadamgachhi, 24-Parganas.

General Ind. Society Ltd., 8, India Exchange Place, Calcutta 700001.

India Linoleums Ltd. (Victoria Division), 14, Dr. H. K. Chatterjee St., Ghusury, Howrah 711101.

Jayshree Textile & Ind. Ltd., Tantigaria, Midnapur 721101.

Shaktigarh Textile & Ind. Ltd., P.O. Barsul, Shaktigarh, Burdwan Dist.

SYRINGES

Hindustan Syringe Pvt. Ltd., Faridabad 121001.

TABLET MAKING MACHINES

Macneil & Barry Ltd., 34/1 Diamond Harbour Rd., Calcutta 700027.

TAPES & WEBBINGS

Fabrika Polyarn, Junction Tata Agra Rd., Bhandup Bombay 400078.

Magnotape Co. Pvt. Ltd., Co. Op. Insce. Bldg., Sir P. Mehta Rd., Bombay 400001.

Polyfabrics, 6, Khetani Ind. Estate, Kurla, Bombay 400070.

Todi Ind. Pvt. Ltd. & Associated Concerns, Todi Estates, Lower Parel, Bombay 400013.

TAPES — RECORDING

Tarzian India Pvt. Ltd., 23A, Najafgarh Rd., New Delhi 110015.

Vimal Enterprises Pvt. Ltd., Main Rd., Umbergaon, Gujarat.

TAPE RECORDERS

Bhatty Electronics Corpn., 98, Ind. Estate, Kandivli West, Bombay 400067.

General Radio Corpn., 2/2, Jhandewalan Ind. Scheme, New Delhi 110055.

Jai Electronic Ind. Pvt. Ltd., 74, Ind. Area, Satpuri, Nasik 422007.

Murphy India Ltd., Dr. Shirodkar Rd., Off Hospital Ave., Parel, Bombay 400012.

Parry Engg. & Electronics Pvt. Ltd., Opp. Jain Temple, M. Gandhi Rd., Ahmedabad 380001.

Singh Radio Co. India Pvt. Ltd., 21, Darya Gunj, Delhi 110006.

Telefunken India Ltd., G-4, N. D. S. E. Part 1, New Delhi 110049.

Western Electroniks Pvt. Ltd., 244, Okhla Ind. Estate, New Delhi 110020.

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Bihar

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Bharat Tent House, Subzimandi, Delhi 110007.

Sarna Web-Equipment Manufg. Co., 7197, Kutab Rd., New Delhi 110055.

Maharashtra

Calcutta-Proofing Co., Chinchpokli Cross Lane, Bombay 400027.

Daisy Trdg. Corpn., 402, Navjivan Bldg., 125/27, K. Sayed St., Bombay 400003.

Danesh Waterproof Materials Pvt. Ltd., Bharat Ind. Block, T. Jivraj Rd., Bombay 400015.

Dwarkadas Velji Talpatriwala, Yogeshwar, 135/37, Hazi Syed St., Bombay 400003.

Jeram Shivji & Sons, 138, Yusuf Meherally Rd., Bombay 400003.

Khimji Velji & Co., 62, Donald St., Bombay 400009.

Kilburn & Co. Ltd., Gresham House, Sir P. Mehta Rd., Bombay 400001.

Mavji Devji Talpatriwala, 146/48, S. Tukaram Rd., Dana Bunder, Bombay 400009.

Morarji Peraj & Co. (Talpatriwala), 138, Masjid Bunder Rd., Bombay 400003.

M. V. Joshi & Co (Talpatriwala), 31, Essaji St., Bombay 400003.

Ratanshi Lalji, 56-H, Rasul Jivaji Comp., Jacob Circle, Bombay 400011.

S. P. Aggarwal & Sons, Room No. 2, Navjivan Bldg., 125/27, Kazi Syed St., Bombay 400003.

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Calcutta Canvas Co., 144-A, Naick St., Madras 600001.

Uttar Pradesh

Kanpur Tent Factory, 89/208, Bansmandi, Kanpur 208001.

Kohli Bros. & Co., New Dalmandi, Kanpur 208001.

West Bengal

Bengal Tent Factories Pvt. Ltd., 18, N. Subash Rd., Calcutta 700001.

Bengal Waterproof Works Ltd., 41, Shakespeare Sarani, Calcutta 700016.

Betala Ind., 68D, N. Subash Rd., Calcutta 700001.

Birkmyre Bros Pvt. Ltd., 87, Stephen House, Calcutta 700001.

Calcutta-Proofing & Paulin Goods Manufg. Pvt. Ltd., 62, Alipore Rd., Calcutta 700027.

Gungadhur Banerjee & Pvt. Ltd., 'Bakulia House', Kidderpore, Calcutta 700023.

India Waterproof Ltd., 13, Brabourne Rd., Calcutta 700001.

Madhoprasad Mahabirprasad (Supplies) Pvt. Ltd., 4, Synagogue St., Calcutta 700001.

Modi Ind., 55, Canning St., Calcutta 700001.

New India Proofing Co., Calso Park, Calcutta 700039.

Shew Prosad Bishnu Prosad, 11, D. Rakhit Lane, Calcutta 700005.

Sircar Bros. Pvt. Ltd., 26-1, S. N. Roy Rd., Calcutta 700001.

Sunrise Trdg. Co., 3/C, N. Lohio Lane, Calcutta 700007.

Textile Wash Co., 113-C, N. Subash Rd., Calcutta 700001.

TEA—INSTANT

Food Specialities, Chevamtavadi Post, Nilgiri Hills, Tamil Nadu,

Tata Finlay Ltd., P.O. Munnar, Kerala.

TEA MACHINERY

Heavy Castings Pvt. Ltd., 6/9, Race Course, Coimbatore 611018.

Marshall Sons & Co. India Ltd., 33/1, N. Subash Rd., Calcutta 700001.

Taps & Dies Ltd., P-17, G. Chandra Ave., Calcutta 700013.

TELECOMMUNICATION EQUIPMENT

Ericsson India Ltd., 15, Community Centre, Suraj Parbat, New Delhi 110024.

Indian Telecommunication Equipment Co., 235, Haqiqat Nagar, Delhi 110002.

Metro Ind. Works, 94, B. Ghosh Rd., Calcutta 700040.

Superphone India, 93, B. Desai Rd., Bombay 400036.

TELEVISION SETS

Bhatty Electronics Corpn., 98, Ind. Est., Kandivli, Bombay 400067.

Electronics Corp. of India Ltd., Ind. Dev. Area, Cherlapalli, Hyderabad 500040.

J. K. Electronics, Kamla Tower, Kanpur 208001.

Mandelia Electronics Pvt. Ltd., Century Bhavan, Dr. A. Besant Rd., Bombay 400025.

Telerad Pvt. Ltd., Atlas Mills Compound, Ready Rd., Bombay 400010.

TESTING MACHINES

Blue Steel Engrs. Pvt. Ltd., 144-A-Z, Ind. Est., Fergusson Rd., Bombay 400013.

TEXTILE AUXILIARIES

Gujarat

K. M. Chemical Industries, 2236, Banwa's Pole, Raipur, Ahmedabad 380001.

New India Ind. Ltd., Jetalpur Rd., Vadodara 390001.

S. P. Heena Industries, G.I.D.C. Plot No. 136/E, Valsad Dist., Vapi 396001.

Ultra Colour Corpn., Opp. Old Khadia Chowky, Sir Chunibhai Rd., Ahmedabad 380001.

Maharashtra

Ahura Chemical Products Pvt. Ltd., 84, Sion Rd., Sion (East), Bombay 400022.

Altex Pvt. Ltd., 147, M. Gandhi Rd., Bombay 400001.

Arkay Industries, No. 26, Tardeo Air Conditioned Market, Bombay 400034.

Ashok Bros., Room No. 3, Savla Chambers, 40, C. Patel St., Bombay 400001.

Associated Chemicals, 12-A, Mahendra Industrial Estate, Sion East, Bombay 400022.

Auxichem, Room No. 60, 296, Samuel St., Bombay 400003.

Bhagwati Trading Co., 61, D-Rd., Bombay 400020.

Calico Ind. Engnrs, Chakala Rd., Andheri, Bombay 400093.

C. D. Corpn., 48, Navandarvan Ind. Estate, Opp. Ralli-Wolf, Mulund, Bombay 400080.

Chemicals & Allied Products, Beside Besant Pictures, Kolwada Borla Rd., Chembur, Bombay 400074.

Chemox Ind. Corpn., Noble Chambers, Parsee Bazar St., Bombay 400001.

Columbia Chemi-Colour Ind. Pvt. Ltd., Plot No. 81, Dr. A. Besant Rd., Bombay 400018.

Dai-Ichi Karkaria Pvt. Ltd., Liberty Building, New Marine Lines, Bombay 400020.

Das & Co., Das Chambers, Dalal St., Bombay 400001.

Dr. Yajnik's Kemicolor Ind., 195, Dr. D. Naoroji Rd., Bombay 400001.

Enterprise & Management Pvt. Ltd., 89, Medows St., Bombay 400001.

Eskay Chemical Corpn., 22-D, Parsee Bazar St., Fort, Bombay 400001.

Fibrolite Auxiliaries, 20, Juhu Lane, Andheri, Bombay 400058.

Gandhi Parekh Investment Corpn. Pvt. Ltd., Maker Bhavan No. 2, 18, New Marine Lines, Bombay 400020.

Gem Industries, 51K, Dockyard Rd., Bombay 400010.

H. D. Nariman & Sons, 104, Ghodbunder Rd., Santa Cruz (West), Bombay 400053.

Hico Products Pvt. Ltd., Mogul Lane, Mahim, Bombay 400016.

Hindustan Organic Products, Technicians' Shed No. 3, MIDC. Ind. Estate, Ambernath, Thana Dist. 400601.

Hoechst Dyes & Chemicals Ltd., Dugal House, Backbay Recl., Bombay 400020.

I. C. I. (I.) Pvt. Ltd., (Dyes Commercial Department), Crescent House, Ballard Estate, Bombay 400038.

Indian Gum Industries Ltd., Shroff Bhuvan, 157, P. D'Mello Rd., Bombay 400001.

Indokem Pvt. Ltd., Fort House, 221, Dr. D. Naoroji Rd., Bombay 400001.

Kumudchandra & Co., 29, Dalal St., Bombay 400001.

3M Corpn. of India, 8, Owner's Court, Mogul Lane, Behind Mahim P.O., Bombay 400016.

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Mather Greaves Ltd., 29, W. Hirachand Marg, Ballard Estate, Bombay 400038.
Mazda Ind. Chemicals Pvt. Ltd., Mazda Ind. House, off Haines Rd., Worli Naka, Bombay 400018.
Mill Factors Corpn., Advani Chambers, Sir P. Mehta Rd., Bombay 400001.
Modern Chemical Corpn., 147, P. Vijay Estate, Bandar Gully, Mahim, Bombay 400016.
Modern Chemical Works, 22, Janki Niwas, N. C. Kelkar Rd., Dadar, Bombay 400028.
New India Trading Corpn., 8/10, Tamarind Lane, Bombay 400001.
Ormeroda (I) Pvt. Ltd., Bank of Baroda Bldg., Apollo St., Bombay 400001.
Parekh Dyechem Industries Pvt. Ltd., Mafatlal House, Backbay Recl., Bombay 400020.
Refind Products Corpn., 10, Bell Building, Sir P. Mehta Rd., Bombay 400001.
Sandeeran Chemicals Co., 166, Bhora Bazar St., Bombay 400001.
Sandoz (I) Ltd., (Dyes & Chemical Division), P. B. No. 6596, Worli, Bombay 400018.
Sardesai Bros. -Ltd., 82, Advent, 12-A, Gen. J. Bhosle Marg, Bombay 400001.
Star Textile Engg. Works Ltd., Dhanraj Mahal, Apollo Bunder, Bombay 400001.
Suessen Textile Bearings Ltd., Dhanraj Mahal, Apollo Bunder, Bombay 400001.
Sunbeam Minochem Pvt. Ltd., Ravel Chambers, 339/41, Samuel St., Bombay 400003.
Supertex (I), Corpn., 201, Kakad Chambers, 132, Dr. A. Besant Rd., Worli, Bombay 400018.
Surfactant Ltd., 401/405, Jolly Bhavan, 10, New Marine Lines, Bombay 400020.
Swastik Oil Mills Ltd., 13, Wittet Rd., Ballard Estate, Bombay 400038.
Tata Oil Mills Co., Ltd., Bombay House, 24, Bruce St., Bombay 400001.
Texspan, 9/E, Elphinstone Rd., Parel, Bombay 400012.
United Pestichem & Nonionics Pvt., Ltd., 84, Sion Rd., Sion East, Bombay 400022.
Victor Trading & Eng. Co., Victor House, Jacob Circle, Bombay 400011.
Vijaya Textiles, Dr. A. Nair Rd., Bombay 400011.

Uttar Pradesh

Associated Chemical Industries, 76/9-10, Block T, Factory Area, Fazalganj, Kanpur 208001.

TEXTILES—EMBROIDERED

Delhi

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Shiv Silk Mills, 71/A, Najafgarh Rd., New Delhi 110015.

Haryana

H. M. Mehra & Co., Kundli, P.O. Narela, Teh. Sonepat, Rohtak Dist.
Hemla Embroidery Mills Pvt. Ltd., Hemla Nagar, Mathura Rd., Faridabad 121001.
Robindra Textile Mills, 14/5, Mathura Rd., Faridabad 121001.

Karnataka

Bangalore Embroidery Works Pvt. Ltd., 256 Upper Place Orchards, Bangalore 560006.

Maharashtra

Allovers & Lace Pvt. Ltd., Plot No. E 7/E 9, MIDC, Electronic Industrial Area, Pune-Nasik Rd., Bhosari, Pune Dist.
Amar Fabrics Corpn., 24, Chandar Mahal, Thakurdwar Rd., Bombay 400002.
Bombay Fancy Textile Co., 132, Ferguson Rd., Bombay 400013.
Cameo Fabrics Pvt. Ltd., Stock Exchange Bldg., Apollo St., Bombay 400001.
Doshi Ind. Corpn., 72 Champa Galli, Bombay 400002.
Embroteks Pvt. Ltd., 67, Bazargate St., Bombay 400001.
Fancy Corpn. Ltd., 16, Apollo St., Bombay 400001.
H. M. Silk Mills, 109, Laxmi Bhavan, Sion (West), Bombay 400022.
Hitex Emb. Pvt. Ltd., Silk House, 630 Girgaum Road, Bombay 400002.
Jasmine Mills Pvt. Ltd., Krishna Nivas, New Silk Bazar, Bombay 400002.
Jyoti Embroidery Pvt. Ltd., Neel Kanth, 98, Marine Drive, Bombay 400002.
Leela Scottish Lace Pvt. Ltd., Andheri-Kurla Rd., Bombay 400059.
Ludhiana Woollen & Silk Mills, 24 Chandar Mahal, Thakurdwar Rd., Bombay 400002.
Pravin & Co. Pvt. Ltd., 500 Kalbadevi Rd., New Resham Bazaar, Bombay 400002.
Ramanlal Pvt. Ltd., Kasturchand Mills Est., Dadar, Bombay 400028.
Shiv Embroidery Manufg. Co., " Shalimar, " Opp. Marine Lines Station, Bombay 400002.
Shree Krishna Textiles, Near Bhor Industries, Borivli East, Bombay 400092.

Swiss Embroidery Pvt. Ltd., 41, Empire Bldg., Dr. D. Naoroji Rd., Bombay 400001.
Vadilal Embroidery Unit, 177 Kalbadevi Rd., Bombay 400002.
Woodcraft Products Ltd. (Embroidery Division), Moti Mahal, 195, Churchgate Recl., Bombay 400020.

Punjab

Indo Knit & Emb. Pvt. Ltd., 8, The Mall, Amritsar 143001.

Tamil Nadu

S. S. M. Brothers Pvt. Ltd., P. B. 8, P. O. Komarapalayam, Via Erode, S. Rly.
Veena Textiles Pvt. Ltd., P. B. 110, 9 Raja St., P. O. Komarapalayam, Via Erode, S. Rly.

TEXTILE MACHINERY

Andhra Pradesh

Swastik Bobbins Manufg. Co. (Pvt.) Ltd., 7/1, Azamabad Ind. Area, Hyderabad 500001.

Gujarat

Ahmedabad Victoria Iron Works Co. Ltd., Dudheshwar Rd., Ahmedabad 380001.
Alkani Ind. Corpn., Kadia's Wadi, Panch Kuva, Ahmedabad 380001.
Amee Engg., Jal Darshan, Ashram Rd., Ahmedabad 380009.
Ara Ind., Opp. Chisti Chambers, Outside Shahpur Gate, Ahmedabad 380001.
Bhagvati Undercasing Manufg. Works, Tavdipura Rd., Ahmedabad 380004.
Bharat Ind. Girdhar Chambers, Gandhi Rd., Ahmedabad 380001.
Cambay Saw Mills, Madan Zampa Rd., Vadodara 390001.
C. B. Sutaria Bros., Cross Lane, Ahmedabad 390002.
Honest Trading Co., Mahadev Nagar, Bilimora 396321.
Indequip Engg. Ltd., Reid Rd., Railwaypura, Ahmedabad 380002.
Ind. Machinery Manufrs. Pvt. Ltd., Near Ahmedabad New Cotton Mills, Off Amraiwadi Rd., Ahmedabad 380008.
Karsandas Bachardas & Sons, Jaldarshan, Ashram Rd., Ahmedabad 380009.
Peers Ind. Engineers Pvt. Ltd., Station Rd., Navsari 396445.
Pioneer Engg. Works, Amdupura, Naroda Rd., Ahmedabad 380002.
Sarabhai Machinery Division, C/o Bakubhai Ambalal Pvt. Ltd., Shantisadan Estate, Mirzapur Rd., Ahmedabad 380001.
Sen & Mettenheimer Pvt. Ltd., Cama Hotel Bldg., Khanpur, Ahmedabad 380001.
Shri Ambica Machinery Manufrs., Near Kankaria Loco Siding, Ahmedabad 380008.
Shri Madhusudan Textiles, A.P. Ind. Estate, Near Gujarat Housing Colony, Ahmedabad 380021.
Standard Materials Co., Narottam Bldg., Kapasia Bazar, Ahmedabad 380002.
Suessen Textile Bearings Ltd., Near Makarpura, Pratapnagar, Vadodara 390004.
Swastik Engg. & Manufg. Co. Pvt. Ltd., Bahucharaji Rd., Vadodara 390001.
Swastik Textile Trading Co. Pvt. Ltd., Amraiwadi, Ahmedabad 380008.
Tarkes Engg. Works, H. A. Market, Kapasia Bazar, Ahmedabad 380002.
Textile Appliances & Instruments Co. Pvt. Ltd., 81, Alkapuri, Vadodara 380001.
Winding Spares Machinery Co., 4, Textile Technicians Society, Navrangpura, Ahmedabad 380009.

Karnataka

Mysore Machinery Manufrs. Ltd., 5th Mile Mysore Rd., Bangalore 560026.
Vijay Bobbins Ind. (Pvt.) Ltd., 54/27, Khader Sheriff Gardens, Bangalore 560027.

Madhya Pradesh

Central India Machinery Manufg. Co. Ltd., P.O. Birlanagar, Gwalior.

Maharashtra

Associated Bearing Co. Ltd., Mahatma Gandhi Memorial Bldg., N. Subash Rd., Bombay 400002.
Baltimore Ind., 84-Imamwada Rd., Sabu Sidiq Hospital Comp., Bombay 400009.
Binani Machinery Corpn., Andheri-Kurla Rd., P.O. J.B. Nagar, Andheri East, Bombay 400059.
Calico Ind. Engrs., Chakala Works, Andheri, Bombay 400069.
Chetan Trading Co., 272, Narsi Natha St., Bombay 400009.
Cooper Engg. Ltd., 658, J. Maharaj Rd., Pune 411004.
Copper Rollers Pvt. Ltd., Gupte Mills Estate, Darukhana Reay Rd., Bombay 400010.
Dalal Engg. Pvt. Ltd., 314, Jolly Bhavan, 10, New Marine Lines, Bombay 400020.
Daver-NGM Pvt. Ltd., 70, Lakshmi Insurance Bldg., Sir P. Mehta Rd., Bombay 400001.
Electronic & Engg. Co., Bhatawadekar Bros. Bldg., Shantinagar, Vakola, Santa Cruz East, Bombay 400055.
Famatex India Pvt. Ltd., Manpada Rd., P.O. Dombivli, Thana Dist.
Guest, Keen, Williams Ltd., L. B. Shastri Marg, Bhandup, Bombay 400078.
Harish Textile Engrs. Pvt. Ltd., 19, Parsi Panchayat Rd., Andheri East, Bombay 400069.
Inarco Ltd., Advent, 12-A, Foreshore Rd., Bombay 400021.
Indian Card Clothing Co. Pvt. Ltd., Bombay-Pune Rd., P.O. Penicillin Factory, Pimpri, Pune 411018.
Lathia Rubber Manufg. Co. Pvt. Ltd., Kurla-Andheri Rd., Sakinaka, Bombay 400072.
Machinery Manufrs. Corpn. Ltd., Eucharistic Congress Bldg. No. 2, 5, Convent St., Bombay 400001.
Mather Greaves Ltd., Hamilton House, Graham Rd., Ballard Estate, Bombay 400038.
National Machinery Manufrs. Ltd., P.B. No. 3, Kalwa, Thana 400605.
New Standard Engg. Co. Ltd., N.S.E. Estate, Ram Mandir Rd., Goregaon East, Bombay 400063.
Premier Ind. Works, 45, Taikalwadi Lane, Off L. Jamshedjee Rd., Mahim, Bombay 400016.
Shakti Textile Engrs. Pvt. Ltd., Manohar Ind. Estate, Chincholi Bunder Rd., Malad, Bombay 400064.
Special Steels Ltd., Dattapara Rd., Borivli East, Bombay 400092.
Standard Fabricators (I) Pvt. Ltd., Co-op. Insurance Bldg., Sir P. Mehta Rd., Bombay 400001.
Star Textile Engg. Works Ltd., Dhanraj Mahal, Shivaji Marg, Bombay 400001.
T. Maneklal Manufg. Co. Ltd., Vaswani Mansion, D. Vachha Rd., Bombay 400020.

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Baroda-9.

Head Sales Office:
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Textile Supplies Syndicate (I) Pvt. Ltd., India House, Opp. G.P.O., Bombay 400001.

Voltas Ltd., Elphinstone Bldg., 6, V. Nariman Rd., Bombay 400001.

Zell-Ate Ltd., Indian Globe Chambers, Fort St., Bombay, 400001.

Tamil Nadu

Allied Engg. Ind., 8B/3, Mettupalayam Rd., Saibaba Mission Post, Coimbatore 641011.

Kunal Engg. Co. Ltd., 22 Ind. Estate, Ambattur, Madras 600058.

Lakshmi Card Clothing Manufg. Co. Pvt. Ltd., P.O. Kuppuswamy Naidupuram, Palladam Taluk, Coimbatore Dist.

Lakshmi Machine Works Ltd., Perianaickenpalayam, P.O. S.R.K. Vidyalaya, Coimbatore 641020.

Madras Spindle Co. Ltd., 3, C. V. Raman Rd., Alwarpet, Madras 600018.

Premier Textile Products, Plot No. 21, Tea Estates of India Compound, Race Course, Coimbatore 641018.

West Bengal

ndian Pin Manufg. Co. Pvt. Ltd., World Trade Centre, 14/1B, Ezra St., Calcutta 700001.

Vipha Machinery Manufrs. Pvt. Ltd., 25, N. Subash Rd., Calcutta 700001.

pinning Accessories Pvt. Ltd., Laha Point House, 7, Chittaranjan Ave., Calcutta 700013.

Spin-Well Pvt. Ltd., 6, Dilarjang Rd., Cossipore, Calcutta 700002.

Textile Machinery Corpn. Ltd., P.O. Belgharia, Calcutta 700056.

TEXTILE MACHINERY & SPARES

Gujarat

Chandabhai & Sons, 2058 Dariapur, Dabgharwad, Ahmedabad 380001.

Chemitex Machinery, 69 Union Co-op. Ind. Estate, Rakhial Rd., Ahmedabad 380001.

Continental Ind., Harisadan, Khadia Char Rasta, Ahmedabad 380001.

Eversharp Textile Corpn., 1075, Talia's St., Sarangpur, Ahmedabad 380001.

Gujarat Corpn. India Pvt. Ltd., Naroda Rd., Ahmedabad 380002.

H. Mansuri & Sons, Dariapur, Dabgarwad, Ahmedabad 380001.

Hides & Leather Products Pvt. Ltd., Reid Rd., Ahmedabad 380002.

India Reeds Manufg. Co., Rakhial Rd., Ahmedabad 380021.

K. K. Engg. Works, Tawdipura, Shahibag, Ahmedabad 380004.

Mashruwala & Bros., Vohra Bldg., Kapasia Bazaar, Ahmedabad 380002.

Metal Moulders Pvt. Ltd., Dudheswar Rd., Ahmedabad 380001.

Metro Wood & Engg., Works Pvt. Ltd., "NK" House, Ashram Rd., Navrangpura, Ahmedabad 380009.

Mistry Ambalal Jetharam Iron & Brass Factory, Ghee Kanta Rd., Ahmedabad 380001.

National Machinery Manufg. Works, Tawdipura, Ahmedabad 380004.

New India Pickers Works, Near Khandni Sheri, Jamalpur, Ahmedabad 380001.

Paramount Textile Agency, H.A. Cloth Market, Kapasia Bazar, Ahmedabad 380001.

Pickers Ltd., Ellis Bridge, Ahmedabad 380006.

Suessen Textile Bearings Ltd., National Highway No. 8, Vadodara 390009.

Maharashtra

Bharat Ind., R. No. 320, Bharat Ind. Estate, Jivraj Rd., Sewree, Bombay 400015.

Eastern Card Clothing Co. Pvt. Ltd., Lal Chimney, Dr. Nair Rd., Bombay 400011.

Laxmi Paper Box Works, 49, Krishna Nagar, Parel, Bombay 400012.

Mahaveer Textile Traders, 98A, A. Dady St., C. P. Tank, Bombay 400004.

Mather Greaves Ltd., Chinchwad, Pune 411019.

Perfect Paper Cone & Tube Manufg. Co., 61/16, Tulsi Niwas, D Rd., Churchgate, Bombay 400020.

Star Textile Engg. Works Ltd., Dhanraj Mahal, C. Shivaji Maharaj Marg, Bombay 400001.

Timbco Textile Ind., 22, Bombay Timber Mkt., Reay Rd., Bombay 400010.

Western India Tanneries Ltd., 2A, Dharavi Rd., Bombay 400017.

West Bengal

Bharat Ind. Corpn. Pvt. Ltd., 13, N. Kar Lane, Salkhia, Howrah 711106.

TEXTILE MILLS

Andhra Pradesh

Abirami Cotton Mills Pvt. Ltd., Sulurpeta, Nellore Dist.
Adoni Spg. and Wvg. Co. Ltd., Alur Rd., Adoni 518301.
Andhra Co-op. Spinning Mills Ltd., Timmanchera, Guntakal, Anantpur Dist. 515801.
Andhra Cotton Mills Ltd., Shriniwasa Nagar, Proddatur, Cuddapah Dist. 516360.
Azam Jahi Mills Ltd., Narsampet Rd., Warangal.
Chirala Co-op. Spg. Mills Ltd., Amodapatnam, Guntur Dist.
Chittoor Textiles Ltd., Madras-Bangalore Trunk Rd., Chittoor 517001.
Dewan Bahadur Ramgopal Mills Ltd., Elchiguda, Secunderabad.
Hemalatha Textiles Ltd., Pedakakani, Guntur 522001.
Jayanti Ramchandrappa Shetty Mills Pvt. Ltd., Raydurg.
Karimnagar Co-op. Spinning Mills Ltd., Ramagunda.
Natraj Spg. & Wvg. Mills Ltd., Nirmal, Adilabad Dist.
Penjuin Textiles Ltd., Tarnaka Uppal, Hyderabad 500039.
Rayalaseema Mills Ltd., Rayanagar, Adoni, Kurnool Dist.
Sarvaraya Textiles Ltd., Beach Rd., Kakinada 533001.
Sarvaraya Textiles Ltd., V.T. Agraharam, Vizianagram 531203.
Sree Akkamamba Textiles Ltd., Venkatarayapuram, Tanuku, W. Godavari Dist.
Sri Venkatachalapathi Mills Ltd., Padmavathinagar, Tirupati 517501.
Super Spg. Mills Ltd., Kirikera, Hindupur, Anantpur Dist.
Suryalakshmi Cotton Mills Ltd., Mahbubnagar 509001.
Telangana Spinning Weaving Mills Ltd., Balanagar, Hyderabad 500003.
Vijaya Spinning Mills Ltd., Ganguru, Krishna Dist.
Yemmiganur Spinning Mills Ltd., Yemmiganur, Bellary.

Assam

Assam Cotton Mills, Singlimara Rd., Chariduwar, Darang.
Associated Ind. (Assam) Ltd., Chandrapur, Kamrup Dist.

Bihar

Bihar Co-op. Weavers Spg. Mills Ltd., Mokameh, Patna.
Dumeron Textiles Ltd., Dumaraon.
Mahalakshmi Fibres & Ind. Ltd., Ormanjhi, Ranchi.

Delhi

Ajudhia Textile Mills Ltd., Azadpur, P.O. Ajudhia Mills, Delhi 110033.
Birla Cotton Spinning & Weaving Mills Co. Ltd., Birla Lines, Delhi 110007.
Delhi Cloth & General Mills Co. Ltd., Bara Hindu Rao, Delhi 110006.

Goa

Chowgule Textile Mills Ltd., Quepem.
Chowgule & Co. Pvt. Ltd., Marmagao.
Goa Textiles Ltd., Marmagao.

Gujarat

Ahmedabad Advance Mills Ltd., Outside Delhi Gate, Ahmedabad.
Ahmedabad Cotton Manufg. Co. Ltd., No. 17 Outside Sarangpur Gate, Ahmedabad 380001.
Ahmedabad Jupiter Spinning, Weaving & Manufg. Co. Ltd., Dadhechi Rd., Ahmedabad.
Ahmedabad Kaiser-I-Hind Mills Co. Ltd., Outside Raipur Gate, Ahmedabad 380022.
Ahmedabad Laxmi Cotton Mills Co. Ltd., Outside Raipur Gate, Ahmedabad 380022.
Ahmedabad Manufg. & Calico Printing Co. Ltd., (Calico Mills), Outside Jamalpur Gate, Ahmedabad 380022.
Ahmedabad New Cotton Mills Co. Ltd., Near Khokhra Mehmedabad, Ahmedabad 380008.
Ahmedabad New Textile Mills Co. Ltd., Outside Raipur Gate, Ahmedabad 380022.
Ahmedabad Shri Ramakrishna Mills Co. Ltd., Gomtipur Rd., Ahmedabad 380021.
Ajit Mills Ltd., Rakhial Rd., Ahmedabad 380021.
Aruna Mills Ltd., Naroda Rd., Ahmedabad 380002.
Arunoday Mills Ltd., Morvi 363641.
Arvind Mills Ltd., Naroda Rd., Ahmedabad 380002.
Aryodaya Ginning & Manufg. Co. Ltd., Asarva Rd., Ahmedabad 380016.
Aryodaya Spinning & Weaving Co. Ltd., Asarwa Rd., Ahmedabad 380016.
Asarwa Mills Ltd., Asarwa Rd., Ahmedabad 380016.
Asoka Mills Ltd., Naroda Rd., Ahmedabad 380002.
Baroda Spinning & Weaving Co. Ltd., Near Badra Pani Gate, Vadodara 390001.
Bechardas Spinning and Weaving Mills Co. Ltd., Raikhad, Ahmedabad.
Bhalakia Mills Co. Ltd., Kankaria Rd., Ahmedabad 380008.
Bharat Suryodaya Mills Co. Ltd., Near Jaganath Mahadev, Ahmedabad.
Bharat Vijaya Mills Ltd. Seven Garnala, Kalol, N. Gujarat 382721.
Bihari Mills Ltd., Mithipur Khokhra, Mehmedabad, Ahmedabad 380008.
Broach Textile Mills Pvt. Ltd., M. Gandhi Rd., Bharuch 392001.
Commercial Ahmedabad Mills Co. Ltd., Near Idgah Chowki, Asarwa, Ahmedabad 380016.
Fine Knitting Co. Ltd., Near Chamunda Mata, Asarwa Rd., Ahmedabad 380016.
Gaekwar Mills Ltd., Bilimora, Valsad 396001.
Gandhidham Spg. & Manufg. Co. Ltd., Adipur, Kutch.
Girdhardas Harivallabdas Mills Ltd., Near Girdhanagar Rly. Crossing, Ahmedabad.
Kanti Cotton Mills Pvt. Ltd., Mill Rd., Surendranagar 363001.
Mafatlal Fine Spinning & Manufg. Co. Ltd., Vejalpure Rd., Navsari.
Mahalaxmi Mills Ltd., Vartej Rd., Bhavnagar.
Maharana Mills Pvt. Ltd., Porbunder, Saurashtra.
Mahendra Mills Ltd., Kalol, N. Gujarat 382721.
Maheshwari Mills Ltd., Shahibag Rd., Ahmedabad 380004.
Maneklal Harilal Spinning & Manufg. Co. Ltd., Saraspur, Ahmedabad 380018.
Manjushri Textiles, Shahibag, Ahmedabad 380004.
Marsden Spinning & Manufg. Co. Ltd., Rakhial Rd., Ahmedabad 380021.
Mihir Textiles Ltd. Mithipur, Ahmedabad 380008.
Monogram Mills Co. Ltd., Rakhial Rd., Ahmedabad 380021.
Nagri Mills Co. Ltd., Rajpur Rd., Ahmedabad 380021.
Narmada Roo Utpadkmi Sahakari Spinning Mills Ltd., Bharuch 392001.
Navjiwan Mills Pvt. Ltd., Kalol, Mehsana Dist. 382721.

Navsari Cotton & Silk Mills Ltd., Vijalpore Rd., Navsari.

Nevasara Mills Pvt. Ltd., Saraspur, Ahmedabad 380018.

New Commercial Mills Co. Ltd., Naroda Rd., Ahmedabad 380002.

New Gujarat Cotton Mills Ltd., Naroda Rd., Ahmedabad 380002.

New India Industries Ltd., Jetalpur Rd., Vadodara 390005.

New Jehangir Vakil Mills Co. Ltd., Nilambag Rd., Bhavnagar 364001.

New Maneckchowk Spinning and Weaving Co. Ltd., Opp. Idgah Gate, Post Asarva, Ahmedabad 380016.

New Rajpur Mills Co. Ltd., Gomtipur Rd., Ahmedabad 380021.

New Shorrock Spinning & Manufg. Co. Ltd., Asarwa Rd., Ahmedabad 380016.

New Swadeshi Mills of Ahmedabad Ltd., Naroda Rd., Ahmedabad 380002.

Newasarwa Manufg. Co. Ltd., Outside Dariapur Gate, Ahmedabad 380016.

Niranjan Mills Pvt. Ltd., Falsawadi Rd., Surat 395003.

Nutan Mills Ltd., *via* Vora's Roja Anil Rd., Ahmedabad 380002.

Patel Mills Co. Ltd., Gomtipur Rd., Ahmedabad 380021.

Petlad Bulakhidas Mills Co. Ltd., Opp. Petlad Station, *via* Anand, Kaira.

Raipur Manufg. Co. Ltd., Outside Saraspur Gate, Ahmedabad 380021.

Rohit Mills Ltd., Khokhra Mehmedabad, Ahmedabad 380008.

Rustom Jehangir Vakil Mills Co. Ltd., Dudheshwar Rd., Ahmedabad 380001.

Sabharkuntha Jilla Ru Utpadakani Co-op. Spinning Mills, Idar Rd., Himatnagar 383001.

Sadhana Textile Mill Pvt. Ltd., Ranjit Sagar Rd., Jamnagar 361001.

Sarangpur Cotton Manufg. Co. Ltd., Outside Raipur Gate, Ahmedabad 380022.

Saraspur Mills Ltd., Saraspur Rd., Ahmedabad 380018.

Saurashtra Co-op. Spinning Mills Ltd., Limbdi, Saurashtra.

Sayaji Mills, Near Old Rly. Stn., Vadodara 390003.

Shri Amarsinhji Mills Ltd., Seth Jayantilal Marg, Wankaner, Saurashtra.

Shri Ambika Mills Ltd., Kankaria, Ahmedabad 380008.

Shri Ambika Yarn Product, Ind. Estate, Naroda.

Shri Arbuda Mills Ltd., Rakhial Rd., Ahmedabad 380021.

Shri Bansidhar Spinning & Weaving Mills Ltd., Naroda Rd., Ahmedabad 380002.

Shri Bhajras Spinning & Weaving Mills Ltd., Jamkhambalia, Saurashtra.

Shri Prithvi Cotton Mills Ltd., M. Gandhi Rd., Bharuch.

Shri Shubhlaxmi Mills Ltd., Station Rd., Cambay 388620 Kaira Dist.

Shri Vivekanand Mills Ltd., Rakhial Rd., Ahmedabad 380021.

Shri Yamuna Mills Co. Ltd., Pratapnagar, Vadodara 390004.

Sidhpur Mills Co. Ltd., Bindu Sarovar Rd., Sidhpur.

Silver Cotton Mills Co. Ltd., Near Jaganath Mahadev, Amraiwadi Rd., Ahmedabad.

Soma Textiles, Rakhial Rd., Ahmedabad 380021.

Surat Cotton Spinning & Weaving Mills Pvt. Ltd., Nawabwadi, Surat.

Surat District Co-op. Spinning Mills, Varachha Rd., Surat 395003.

Surat Textile Mills Ltd., Varachha Rd., Surat 395003.

Tarun Commercial Mills Ltd., Outside Kalupur Gate, Railwaypura, Ahmedabad 380002.

Vijaya Mills Co. Ltd., Naroda Rd., Ahmedabad 380002.

Vikram Mills Ltd., Outside Saraspur Gate, Rajpur, Ahmedabad 380021.

Haryana

Bhiwani Textile Mills, Birla Colony, Bhiwani.

Elson Cotton Mills Pvt. Ltd., 23rd Milestone, Mathura Rd., Ballabgarh 121004.

Gopichand Textile Mills Ltd., Hissar Rd., Sirsa, Hissa 125001.

Hissar Textile Mills, Hissar 125001.

Rohtak Textile Mill Ltd., Circular Rd., Rohtak 124001.

Technological Institute of Textiles, Bhiwani.

Usha Spinning & Weaving Mills Ltd., 12/1, Milestone, Mathura Rd., Faridabad 121001.

Jammu & Kashmir

Chenab Textile Mills, Jammu Main Rd., Kathua.

Karnataka

Bagalkot Co-op. Spinning Mills Ltd., Bagalkot 587101.

Bellary Spinning & Weaving Co. Ltd., Vinayaknagar, Hospet Trunk Rd., Bellary 583101.

Bhadra Spinning Mills (Pvt.) Ltd., Magadi Rd., Dasarhalli, Bangalore 560010.

Bijapur Co-op. Spinning Mills Ltd., Near Bijapur Rly. Stn., Bijapur 586101.

Binny Ltd., No. 1, Agraharam Rd., Bangalore 560023.

Devangere Cotton Mills Ltd., Poona-Bangalore Rd., Devangere 577001, Shimoga.

Gokak Mills Ltd., Gokak Falls, Belgaum 590001.

Mahaboob Shahi Kulbarga Mills Co. Ltd., Gulbarga 585101.

Minerva Mills Ltd., Magadi Rd., Bangalore 560023.

Nandi Hasbi Textile Mills (Pvt.) Ltd., Samapurgram, Dharwar 580001.

Ramkumar Mills Pvt. Ltd., No. 1, Subramiayapurar Bangalore 560011.

Ramkumar Mills Pvt. Ltd., No. 2, Rajajinagar, Bangalore 560010.

Shree Ganesar Textile Mills Ltd., Poona-Bangalore Rd., Devangere 577001, Shimoga.

Shree Kathiresan Spinning Mills, Garehatti, Chitradurga 577501.

Sri Anjaneya Cotton Mills (Pvt.) Ltd., Averagere Village, Bada Rd, Devangere 577001, Shimoga.

Sri Krishna Rajendra Mills Ltd., Bangalore Rd., Mysore 570003.

Sri Shankara Textile Mills Ltd., Bangalore-Poona Rd., Devangere 577001, Shimoga.

Sri Siddeswara Textile Mills (Pvt.) Ltd., Devangere 577001, Shimoga.

Sujata Textile Mills, Nanjangud Town 571301.

Kerala

Alagappa Textiles (Cochin) Ltd., Alagappanagar, Trichur.

Asok Textiles (Pvt.) Ltd., Asokapuram, Alwaye 683101.

Calicut Modern Spinning & Weaving Mills Ltd., Somasundarapuram, Chelambra, Kozhikode.

Cannanore Co-op. Spinning Mills Ltd., Chovva, Cannanore 670006.

Chakolas Spinning & Weaving Mills Ltd., Alwaye 683104, Ernakulam Dist.

G. T. N. Textiles, Alwaye, Ernakulam Dist.

J. & P. Coats (Ind.) Pvt. Ltd., Koratti, Trichur Dist.
Kanthimathy Mills, Ind. Estate, Trivandrum 695019.
Kathayee Cotton Mills Ltd., Perumbavoor Rd., Alwaye.
Kerala Laxmi Mills Ltd., Pullazhi, Trichur.
Madras Spinners Ltd., Attappallam, Chullimada, Palghat 678007.
Malabar Spg. & Wvg. Co. Ltd., Kallai, Calicut 673003.
Parvathi Mills Ltd., Quilon 691001.
Premier Cotton Spinning Mills Ltd., Kanjikode West, Palghat 678007.
Sri Bhagavathi Textiles Ltd., Chittur, Palghat Dist.
Sri Bhagavathi Textiles Ltd., Vannamadai Post, Chittoor, Palghat Dist.
Trivandrum Spg. Mills Ltd., Balarampuram, Trivandrum.
Vanaja Textiles Ltd., Kurichikara, Trichur.
Vijayamohini Mills Ltd., Thirumala, Trivandrum 695006.
Western India Cotton Mills Ltd., Pappinisseri, Cannanore Dist.

Madhya Pradesh

Bengal Nagpur Cotton Mills Ltd., Rajnandgaon, Durg Dist.
Bharat Commerce & Ind. Ltd., Birlagram, Nagda 456335.
Bilaspur Spinning Mills & Ind. Ltd., Bilaspur 495001.
Binod Mills Co. Ltd., Ujjain 456001.
Burhampur Tapti Mill Ltd., Lalbag, Burhampur.
Hukamchand Mills Ltd., Shilnath Camp, Indore.
Indore-Malwa United Mills Ltd., New Dewas Rd., Indore.
Jiyajirao Cotton Mills Ltd., Birlanagar, Gwalior.
Kalyanmal Mills Ltd., 15, Silnath Camp, Indore.
M. P. State Ind. Co-op. Ltd., Khandwa, Indore Rd., Sanawad 450001.
Mandsaur Textile Mills, Mandsaur 458001.
Motilal Agarwal Mills Pvt. Ltd., Ind. Area, Birlanagar, Gwalior.
Nandlal Bhandari Mills Ltd., Snehlataganj Main Rd., Indore.
New Bhopal Textiles Ltd., Chandbarh, Bhopal.
Nimas Textiles Ltd., Indore Rd., Khandwa.
Rai Bahadur Kanhaiyalal Bhandari Mills, Malgodown Rd., Indore.
Rajkumar Mills Ltd., 7, New Dewas Rd., Indore.
Shree Sajjan Mills Ltd., Ratlam 457001.
Standard Mills Co. Ltd., Balgarh, Dewas 455001.
Swadeshi Cotton & Flour Mills Ltd., 7, Shilnath Camp, Indore.

Maharashtra

Ahmedabad Jupiter Spinning/Weaving & Manufg. Co., Ltd., Carroll Rd., Parel, Bombay 400012.
Amravati Growers Co-op. Spinning Mills Ltd., Badnera Rd., New Ind. Estate, Amraoti.
Apollo Mills Ltd., N. M. Joshi Marg, Chinchpokli, Bombay 400011.
Aurangabad Mills Ltd., Kotwalpura, Aurangabad 431001.
Bombay Dyeing & Manufg, Co. Ltd., G. D. Ambekar Marg, Dadar, Bombay 400014.
Bradbury Mills Ltd., M. Azad Rd., Jacob Circle, Bombay 400011.
Century Spinning & Manufg. Co. Ltd., Globe Mill Passage, N. M. Joshi Marg, Bombay 400013.
Chhaganlal Textile Mills (Pvt) Ltd., Chalisgaon, East Khandesh.

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Coorla Spinning & Weaving Co. Ltd., Old Agra Rd., Kurla, Bombay 400070.
Crown Spinning & Manufg. Co. Ltd., Gokhale Rd. (South), Bombay 400025.
Dawn Mills Co. Ltd., Fergusson Rd., Lower Parel, Bombay 400013.
Deccan Co-op. Spinning Mills Ltd., Station Rd., Jawahar Nagar, Shiroli, Kolhapur Dist.
Digvijay Spg. & Wvg. Co. Ltd., Lalbaug, Bombay 400033.
Edward Textiles U.R.S., Fergusson Rd., Lower Parel, Bombay 400013.
Elphinstone Spinning & Weaving Co. Ltd., Elphinstone Rd., Bombay 400013.
Empress Mills, Napur 440001.
Finlay Mills Ltd., 10/11, Dr. S. S. Rao Rd., Bombay 400012.
Gold Mohur Mills Ltd., Dadasaheb Phalke Rd., Dadar, Bombay 400014.
Hindoostan Spinning & Weaving Mills Co. Ltd., Jacob Circle, Bombay 400011.
India United Mills Ltd., Dr. Ambedkar Rd., Parel, Bombay 400012.
Jam Manufg. Co. Ltd., Lalbaug, Bombay 400012.
Jam Shri Ranjitsinghji Spinning and Weaving Mills Co. Ltd., Station Rd., Sholapur.
Jawahar Co-op. Spinning Mills Ltd., Nanded Rd., Latur, Osmanabad Dist.
Jawahar Sahakari Kapus Utpadak Soot Girni Maryadit, Latur, Osmanabad.
Jayashankar Mills (Barsi) Ltd., 2553, Bhoyare Rd., Barsi Town, Sholapur.

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Jayfab Rayon Ind. Pvt., Ltd. L. B. Shastri Marg, Bombay 400086.

Kamla Mills Ltd., Tulsipipe Rd., Bombay 400013.

Khatau Makanji Spinning and Weaving Co. Ltd., B. Jagtap Marg, Byculla, Bombay 400011.

Kiran Spinning Mills, Kolshet Rd., Thana.

Kohinoor Mills Co. Ltd., Naigaum Cross Rd., Dadar, Bombay 400014.

Kolhapur Sahakari Zilla Setkari Vinkar Soot Girni Ltd., Yadrav Shirol, Kolhapur.

Laxmi-Vishnu Textile Mills Ltd., Sholapur.

Lokamanya Mills (Barsi) Ltd., Arangaon Rd., Barsi Town, Sholapur.

Madhavnagar Cotton Mills Ltd., Madhavnagar, Sangli.

Mafatlal Fine Spinning & Manufg. Co. Ltd., Mount Estate, Mazagaon, Bombay 400010.

Marathe Textiles Mills, Near Rly. Stn., Miraj.

Marathwada Co-op. Spinning Mills Ltd., Wajegaon Taluka, Nanded.

Marathwada Textiles Ltd., Hingol.

Model Mills (Nagpur) Ltd., Umrer Rd., Nagpur.

Modern Mills Ltd., 98, Elphinstone Rd., Parel, Bombay 400025.

Morarjee Gokuldas Spinning & Weaving Co. Ltd., Dr. Ambedkar Rd., Parel, Bombay 400012.

Nagpur Vinkar Sahkari Soot Girni Maryadit, Umrer Rd., Nagpur 440003.

Narsinggirjee Mills, Station Rd., Sholapur.

New City of Bombay Manufg. Co. Ltd., 63, T. B. Kadam Marg, Bombay 400033.

New Great Eastern Spinning & Weaving Co. Ltd., Dr. Ambedkar Rd., Bombay 400027.

New Kaiser-I-Hind Spinning & Weaving Co. Ltd., Gurupdeo Rd., Bombay 400033.

New Pratap Spg. Wvg. & Manufg. Co., U.R.S., Near Rly. Stn., Dhulia, West Khandesh 424001.

Osmanshahi Mills Ltd., Nanded 431601.

Phoenix Mills Ltd., Senapati Bapat Marg, Lower Parel, Bombay 400013.

Piramal Spinning & Weaving Mills Ltd., Fergusson Rd., Bombay 400013.

Podar Mills Ltd., N. M. Joshi Marg, Bombay 400011.

Prakash Cotton Mills Pvt. Ltd., Fergusson Rd., Lower Parel, Bombay 400013.

Pratap Spinning, Weaving & Manufg. Co. Ltd. (U.R.L.), Amalner, East Khandesh.

Pulgaon Cotton Mills Ltd., Pulgaon, Amraoti.

R. B. Bansilal Amirchand Spinning & Weaving Mills (U.R.S.), Main Rd., Hinganghat, Wardha 442001.

R. S. Rechchand Gopaldas Mohota Spinning & Weaving Mills Pvt. Ltd. (U.A.C.), Akola 444001.

R. S. Rechchand Mohota Spinning and Weaving Mills Pvt. Ltd., Hinganghat, Wardha 442001.

Raghuvanshi Mills Ltd., 11/12, Haines Rd., Mahalaxmi, Bombay 400013.

Rahuri Taluka Sahakari Kapus Ginning & Pressing Society Ltd., Rahuri, Ahmednagar.

Raja Bahadur Motilal Poona Mills Ltd., 5, Raja Bahadur Motilal Rd., Pune 411001.

Rajen (Textile) Mills Pvt. Ltd., Barsi Town, Sholapur.

Rajesh Textile Mills Ltd., Fergusson Rd., Lower Parel, Bombay 400013.

Ruby Mills Ltd., Lady Jamshedji Rd., Dadar, Bombay 400028.

Sayaji Mills, Fergusson Rd., Lower Parel, Bombay 400013.

Seksaria Cotton Mills Ltd., De Lisle Rd., Bombay 400013.

Sholapur Sahakari Soot Girani Niyamit, Akkalkot Rd., Sholapur.

Shree Balaji Spg. & Wvg. Mills, Shivajinagar, Sangli.

Shree Madhusudan Mills Ltd., Globe Mill Passage, N. M. Joshi Marg, Bombay 400013.

Shree Mukesh Textile Mills Pvt. Ltd., Victoria Bunder Rd., Colaba, Bombay 400005.

Shree Niwas Cotton Mills Ltd., 402, S. Bapat Marg, Bombay 400013.

Shree Ram Mills Ltd., Fergusson Rd., Bombay 400013.

Shri Shahu Chhatrapati Mills, Shahupuri, Kolhapur 416002.

Shree Shakti Mills Ltd., Podar Chambers, Syed A. Brelvi Rd., Bombay 400001.

Shree Sitaram Mills Ltd., N. M. Joshi Marg, Bombay 400013.

Simplex Mills Co. Ltd., 30, Clerk Rd., Jacob Circle, Bombay 400011.

Standard Mills Co. Ltd., New Prabhadevi Rd., Lower Parel, Bombay 400015.

Swadeshi Mills Co. Ltd., Old Agra Rd., Kurla, Bombay 400070.

Swan Mills Ltd., Tokarsi Jivraj Rd., Sewri, Bombay 400016.

Tata Mills Ltd., Dr. Ambedkar Rd., Dadar, Bombay 400014.

Vallabh Textile Mills Ltd., 6, Kalwa Ind. Area, Thana.

Vasant Sahakari Soot Wa Kapad Girni Ltd., Pandharkoda, Yeotmal.

Victoria Mills Ltd., Globe Mill Passage, Off N. M. Josh Marg, Bombay 400013.

Vidarbha Mills Berar (U.R.S.), Amraoti, Achalpur.

Vishwa Bharati Spinning & Weaving Co-op. Society Ltd., Kawad Village, Angan, Thana.

Western India Spinning and Manufg. Co. Ltd., Dattaram Lad Marg, Parel Tank, Bombay 400033.

Yeotmal Zilla Sahakari Soot Wa Kapad Girni Ltd., Pandharkoda & Pusad, Yeotmal Dist.

Yeshwant Sahakari Soot Girni Niyamit, Bhor, Pune Dist.

Orissa

Bhaskar Textile Mills Ltd., Jharsuguda, Sambalpur.

Kalinga Textiles (Pvt.) Ltd., Rajgangpur.

Orissa Textile Mills Ltd., 3 & 4, Choudwar, Cuttack.

Pondicherry

Anglo-French Textiles Ltd., Cuddalore Rd., Pondicherry.

Cannore Spinning & Weaving Mills Ltd., Kakat Cannore.

Soundaraja Mills Pvt. Ltd., Nedungadu, Near Kariakal.

Sri Bharathi Mills Ltd., Mudaliarpeth, Pondicherry 605004.

Swadeshi Cotton Mills Co. Ltd., Mudaliarpeth, Pondicherry 605004.

Punjab

Bharat Commerce & Ind. Ltd., Ind. Area, Rajpura.

Dayalbagh Spinning & Weaving Mills, Putlighar, Amritsar.

Jagatjit Cotton Textile Mills Ltd., G.T. Rd., Phagwara.

Kharar Textile Mills, Kharar, Chandigarh.

Punjab-Hosiery & Textile Mills Ltd., Ludhiana.

Shree Bhawani Cotton Mills Ltd., Ganganagar Rd., Abohar 152116, Firozpur Dist.

Vardhman Spinning & General Mills Ltd., Chandigarh Rd., Ludhiana 141003.

Rajasthan

Aditya Mills Ltd., Madanganj, Kishangarh.

Anjana Vijaya Spinning Mills, Ind. Estate, Bhilwara 311001.

Jaipur Spinning & Weaving Mills Ltd., Podar Puri Power House Rd., Jaipur 302006.

Kamala Spinning Factory, Ind. Estate, Bhilwara 311001.

Krishna Mills Ltd., Beawar 305901.

Mahalakshmi Mills Co. Ltd., Beawar 305901.

Maharaja Kishangarh Samyog Mills Co. Ltd., Madanganj, Kishangarh.

Maharaja Shree Umaid Mills Ltd., Jodhpur Rd., Marwar.

Mewar Textile Mills Ltd., Bhilwara 311001.

Podar Spinning Mills, Podarpuri, Power House Rd., Jaipur 302006.

Rajasthan Spg. & Wvg. Mills Ltd., Bhilwara 311001.

Rajasthan Textile Mills, Bhawanimandi.

Shree Gopal Ind. Ltd., Rangpur Rd., Kota 324002.

Shree Sadul Textiles Ltd., Sriganganagar 335001.

Tamil Nadu

Alagappa Cotton Mills, Nagammai, Rajapalayam, Ramnad.

Anand Kumar Mills Ltd., Siravanampatti, Coimbatore.

Asher Textiles Ltd., 1/4, Avanashi Rd., Tirupur 638603.

Bhavani Mills Ltd., Sundarapuram, Padanur, Coimbatore.

Bhojaraj Textiles Mills Ltd., Theni, Madurai 625004.

Binny Ltd., Perambur Barracks, Madras 600012.

Cambodia Mills Ltd., Kamachipuram, Ondiputhur, *via* Coimbatore.

Cauvery Spinning & Weaving Mills Ltd., Cauvery Nagar, Tiruchirapally.

Central Jail Spinning & Weaving Factory, Central Jail, Coimbatore.

Chandra Textiles Pvt. Ltd., Peelamedu, Coimbatore 641004.

Coimbatore Cotton Mills Ltd. & Coimbatore Cotton Jubilee Mills, Uppilipalayam, Coimbatore 641015.

Coimbatore Dist. Co-op. Spinning Mills Ltd., Kolathupalayam, Coimbatore.

Coimbatore Murugan Mills Ltd., Mettupalayam Rd., Coimbatore.

Coimbatore Pioneer Mills Ltd., Peelamedu, Coimbatore.

Dhanalakshmi Mills Ltd., 56, B.S. Sundaram Rd., Tirupur.

Ganga Textiles, 2/387, Avanashi Rd., Coimbatore 641018.

Gnanambikai Mills Ltd., Coimbatore 641001.

Gobald Textiles Pvt. Ltd., Ammapalayam, Tirupur 638603.

Gomathy Mills, Viravanallur, Tirunelveli.

Jawahar Mills Ltd., Shavapet, Surmangalam Rd., Salem.

Jayaram Mills Ltd., Samsikapuram Rd., Rajapalayam.

Jothi Mills, Jothipuram, Coimbatore 641019.

Kadri Mills (C.B.E.) Ltd., Odderpalayam, Ondiputhur.

Kancheepuram Kamakshiamman Co-op. Spinning Mills Ltd., Vaiyavoor, Kancheepuram 631501.

Kandasamy Spinning Mills, Suriyampalayam, Bhavani 638301, *via* Erode.

Kanyakumari District Co-op. Spinning Mills Ltd., P.O. Aramboly.

Karur Mills Ltd., Dindigul Rd., Thanthonimalai, Karur 639001

Kayner Textiles Ltd., Konarpalayam, *via* Erode.

Kishnaveni Textiles Ltd., Trichy Rd., Uppilipalayam, Singanallur.

Kothari Textiles Ltd. Singanallur, Coimbatore.

Kumaran Mills Ltd., Narasimhanaickenpalayam, Coimbatore 641017.

Kwality Spinning Mills (Pvt.) Ltd., Udamelpet Rd., Pollachi.

Lakshmi Mills Co. Ltd., Pappanaickenpalayam, Kovilpatti 627701.

Lotus Mills Ltd., Sundarapuram, Podanur, Coimbatore 641024.

Loyal Textile Mills Ltd., Kovilpatti 621701.

Madura Mills Co. Ltd., Madura, 625001.

Madurai Dist. Co-op. Spinning Mills Ltd., Koruthapullampatti, Melur.

Mettur Beardsell Ltd., Mettur Dam Rd., South Salem.

Mettur Spinning Mills, Mettur Dam, Salem.

Nagammal Mills Ltd., Kaliancaud, Nagercoil 629003.

North Arcot Dist. Co-op. Spinning Mills Ltd., Ariyur Vellur 632002.

Palani Andavar Mills Ltd., Dhally Rd., Udamelpet, Coimbatore Dist.

Premier Mills (CBE) Ltd., Pulankinar, Udamelpet, Coimbatore Dist.

Pulliccar Mills Ltd., Tiruchengodu, Salem Dist.

Radha Krishna Mills Ltd., Peelamedu, Coimbatore 641004.

Rajalakshmi Mills Ltd., Uppilipalayam, Singanallur, Coimbatore 641005.

Rajapalayam Mills Ltd., Samsikapuram Rd., Rajapalayam.

Rajaratna Mills (Pvt.) Ltd., Neikarapatty, Palani.

Rajeswari Mills Ltd., Railway Station Rd., Gudiyattam.

Ramalinga Mills (Pvt.) Ltd., 53, Great Cotton Road, Arupukotai, Ramnad Dist.

Raveendra Mills Ltd., Singanallur, Aerodrome Rd., Coimbatore 641005.
Rukmini Mills Ltd., Silaiman Post, Madurai Dist.
Salem Co-op. Spinning Mills Ltd., Ammapet, Salem.
Salem Textiles Ltd., Selliampalayam, Narasingapuram, Salem Dist.
Saroja Mills Ltd., Singanallur, Coimbatore 641005.
Sholingur Textiles Ltd., Pandianallur Village, Sholingur.
Sitalakshmi Mills Ltd., Madurai 625006.
Sivananda Mills Ltd., Sravanampatti, Coimbatore 641006.
Somasundaram Mills (Pvt.) Ltd., 10/64, Somasundaram Mill Rd., Coimbatore.
Soundaraja Mills Pvt. Ltd., Soundaraja Mills Rd., Dindigul.
South Arcot Dist. Co-op. Spinning Mills Ltd., P.O. Saram, Tindivanam 604001, South Arcot Dist.
Southern Textiles Ltd., Sulur, Coimbatore.
South India Co-op. Spinning Mills Ltd., P.O. Pettai, Tinneveli Dist.
Sree Ayyanar Spinning & Weaving Mills Ltd., Mallonginar, Ramnad Dist.
Sree Meenakshi Mills Ltd., Thirupparankundram Rd., Madurai.
Sree Meenakshi Mills Ltd., Paravai, Madurai Dist.
Sree Nithyakalyani Textiles Ltd., Tiruvadana Senbanur, *via* Kallai, Ramnad Dist.
Sree Rajendra Mills Ltd., Gandhi Nagar, Salem 636009.
Sree Sabari Mills Pvt. Ltd., P.O., K. Sathanur E. Puthur, Tiruchirapalli 620001.
Sree Saraswathi Mills Ltd., Karthikeyapuram, Tiruttani, Chingleput.
Sree Sivakami Mills Ltd., Thenur, Madurai Dist.
Sree Visalakshi Mills Ltd., Vilangudi, Madurai Dist.
Sri Balasubramania Mills Ltd., Uppilipalayam, Coimbatore 641015.
Sri Bharathi Cotton Mills, Rajapalayam.
Sri Ganapathy Mills Co. Ltd., Chatrampudukkalam, Shankarnagar.
Sri Kannapiran Mills Ltd., Souripalayam, Coimbatore 641004.
Sri Karunambikai Mills Ltd., Somanur Post, Coimbatore.
Sri Kothandaram Spinning Mills, 29, Venkatapathi Iyengar St., Madurai.
Sri Lakshmi Saraswathi Textiles (Arni) Pvt. Ltd., Ramanathapuram 623501.
Sri Natesar Spinning and Weaving Mills (Pvt.) Ltd., 147/148, Perundurai Rd., P.B. 6, Erode 638001.
Sri Ramakrishna Mills Ltd., Sathimangalam, Coimbatore 641006.
Sri Ramalinga Choodambikai Mills Ltd., 59A/15, B. S. Sundaram Rd., Tirupur.
Sri Ramnarayan Mills Ltd., Perianaickenpalayam, Coimbatore 641018.
Sri Ranga Vilas Ginning, Spinning & Weaving Mills Peelamedu, Coimbatore 641004.
Sri Rani Lakshmi Ginning, Spinning & Weaving Mills (Pvt.) Ltd., Arasur, Palladam.
Sri Sakthi Textiles (Pvt.) Ltd., Pollachi 642001.
Sri Venkatesha Mills Ltd., Palni Rd., P.O. Venkatesha Mills, Udamelpet.
Sri Venkatesha Mills Ltd., Kathirvedu, Madras 600066.
Srivilliputtur Co-op. Spinning Mills Ltd., Srivilliputtur.
Sudarsanam Spinning Mills, Samsikapuram Rd., Rajapalayam.
Sundaram Textiles Ltd., Nambinagar, P.O. Nanguneri, Tirunelveli Dist.
Surya Prabha Mills Pvt. Ltd., Kunimuthur, Coimbatore 641008.
Swamiji Mills Ltd., Meenakshipuram, Shivakashi 626123.
Thanjavur Dist. Co-op. Spinning Mills Ltd., Manalmedu, Mayuram Taluk, Thanjavur.
Thanjavur Textiles Ltd., Thanjavur 613005.
Thiagarajar Mills, Kappalur, Thirumangalam, Madurai Dist.
Thirumagal Mills Ltd., Katpadi Rd., Gudiattam, North Arcot.
Tiruchendur Co-op. Spinning Mills Ltd., Nazareth, Tirunelveli.
Tiruchirapalli Dist. Co-op. Spinning Mills Ltd., Malaikovilur, Karur 639001, Trichy.
Tirupur Cotton Spinning & Weaving Mills Ltd., Perumanallur Rd., Tirupur 638602.
Trichinopilly Mills Ltd., Ramjeenagar, Tiruchirapalli 620009.
Tuticorin Spg. Mills Ltd., 106, Palayamcottai, Tuticorin.
Varadhlakshmi Mills Ltd., Rajagambeeram, Hill Crest, Madurai.
Vasanta Mills Ltd., Trichy Rd., Singanallur, Coimbatore 642005.
Vijayakumar Mills Ltd., Chinnakalyamputhur Village, Madurai Dist.
Vijayalakshmi Mills Ltd., Kuniyamuthur, Coimbatore 641008.

Uttar Pradesh

Ajanta Textiles Ltd., Loni Rd., Ind. Area, Ghaziabad, 201001.
Amitabh Textile Mills Ltd., Prem Nagar, Dehra Dun 248001.
Ankey Cloth & General Mills, Hathras City 204101.
Atherton West & Co. Ltd., Anwarganj, Kanpur 208001.
Bankey Cotton & Spinning Mills, Hathras City 204101.
Bijili Cotton Mills Ltd., Mendu Rd., Hathras City 204101.
Cawnpore Textiles Ltd., Cooperganj, Kanpur 208001.
Elgin Mills Co. Ltd., Civil Lines, Kanpur 208001.
J. K. Manufacturers Ltd., Lala Kamlapat Rd., Kanpur 208001.
John's Mills Co., Jeoni-Ki-Mandi, Agra 282001.
Juggilal Kamlapat Cotton Spinning & Weaving Mill Co. Ltd., Lala Kamlapat Rd., Kanpur 208001.
Lakshmi Ratan Cotton Mills Co. Ltd., Kalpi Rd., Kanpur 208001.
Lord Krishna Textile Mills, Nakur Rd., Sahranpur 247001.
Madan Ind. Ltd., Hastinapur, Meerut 250001.
Modi Spinning & Weaving Mills Co. Ltd., Modinagar, Meerut 250001.
Moradabad Spinning & Weaving Co. Ltd., Kundanpur, Moradabad 244001.
Muir Mills Co. Ltd., Civil Lines, Kanpur 208001.
N. K. Cotton Mills, Hathras City 204101.
New Victoria Mills Co. Ltd., 14/1, Civil Lines, Kanpur 208001.
Prem Spg. & Wvg. Co. Ltd., Station Rd., Ujhani, Badaun.
Raza Textiles Ltd., Rampur 244901.
Swadeshi Cotton Mills Co. Ltd., Hamirpur Rd., Juhi, Kanpur 208001.
Swadeshi Cotton Mills Co. Ltd., Naini, Allahabad.

U.P. Co-op. Spinning Mills Ltd., Manipur Rd., Etawah 206001.

West Bengal

Adarsha Cotton Spinning & Weaving Mills Ltd., Suryanagar, Asansol, P.O. Burnpur, Calcutta.

Anantapur Textiles Ltd., Vill-Jhumjhumi, Anantapur, Howrah.

Bangeswari Cotton Mills Ltd., Rishra, Serampore, Hooghly 712201.

Bangodaya Cotton Mills Ltd., Panihati, 24 Parganas.

Basanti Cotton Mills Ltd., Panihati, 24 Parganas.

Bengal Luxmi Cotton Mills Ltd., Serampore, Hooghly 712201.

Bengal Textile Mills Ltd., Cossimbazar, Murshidabad.

Bhagyalaxmi Cotton Mills Ltd., Belgharia, 24 Parganas.

Bowreah Cotton Mills Co. Ltd., Bauriam, Howrah.

Cotton Spinning & Rope Co., 51, J. N. Mukherjee Rd., Salku, Howrah.

D. N. Chawdhari Cotton Mills, Dakshineswar, Ariada, 24 Parganas.

Dunbar Mills Ltd., Shamnagar, Garulia, 24 Parganas.

Eastern Spinning Mills Ltd., Pirgachha, 24 Parganas.

Emerald Cotton Mills Ltd., Shamnagar, 24 Parganas.

General Ind. Society Ltd. G.T. Rd., Champadany, Baidyabati, Hooghly 712103.

Hada Textile Industries Ltd., Diamond Harbour Rd., 24 Parganas.

India Jute Co. Ltd. Serampore, Hooghly 712201.

India Linoleums Ltd., 14, Dr. H. K. Chatterjee St., Howrah.

Jaya Shree Textiles & Ind. Ltd., Tantigaria, Midnapore 721101.

Kalyani Spinning Mills Ltd., Kalyani, Nadia 741235.

Kesoram Ind. & Cotton Mills Ltd., 42, Garden Reach Rd., Calcutta 700024.

Madura Mills Ltd., Serampore, Hooghly 712201.

Mayurakshi Cotton Mills Ltd., Panchra, Birbhum Dist.

Navnit Yarn Spinning Mills, Bankura 722101.

Poddar Projects Ltd., 18, Rabindra Sarani, Calcutta 700001.

Rampooria Cotton Mills Ltd., P.O. Serampore, Hooghly 712201.

Shri Hanuman Cotton Mills Ltd., Fuleshwar, Uluberia, Howrah.

Shri Mahalaxmi Cotton Mills Ltd., Palta, 24 Parganas.

Shaktigarh Textiles & Ind., Barasol, Burdwan 713101.

Sri Annapoorna Cotton Mills Ltd., Shamnagar, 24 Parganas.

Sri Durga Cotton Spinning & Weaving Mills Ltd., Konnagar, Hooghly 712103.

TEXTILE SHUTTLES

Gujarat

Metro Wood & Engg. Works Pvt. Ltd., Ashram Rd., Navrangpura, Ahmedabad 380009.

National Shuttle Manufg. Works, 1288, Vakharia Bldg., Kapasia Bazar, Ahmedabad 380001.

Swastik Textile Trading Co. Pvt. Ltd., Motilal Haribhai Market, Railwaypura Post, Ahmedabad 380001.

Maharashtra

Acme Bobbins & Shuttles Pvt. Ltd., 315, S. V. Savarkar Marg, Dadar, Bombay 400028.

Bharat Timber Ind. (Bombay) Pvt. Ltd., 522, Sayani Rd., Bombay 400025.

Bombay Shuttle Manufg. Co., 21, Dalal St., Bombay 400001.

Central India Machinery Manufg. Pvt. Ltd., 80, S. Vivekanand Rd., Jogeshwari, Bombay 400060.

Hindusthan Bobbins Ind., 8, Ramesh Nivas, B. Desai Rd., Bombay 400026.

Indian Shuttle Co. Pvt. Ltd., 105, Apollo St., Bombay 400001.

John Roberts & Co. Pvt. Ltd., Sewree, Bombay 400015.

S. S. Wilson & Co., 384, Sakharpeth, Sholapur 413001.

Swastik Textile Trading Co. Pvt. Ltd., 16, Apollo St., Bombay 400001.

Tarsema Textiles Traders, 11, Noble Chambers, Parsee Bazar St., Bombay 400001.

West Bengal

Chakravati & Co., P-10, New Howrah Bridge Approach Rd., Calcutta 700001.

THREAD — SEWING

(See Under 'Sewing Thread' in this list.)

TINPLATE FABRICATORS

Bihar

Hind Engg. Co., Lakhani Bigha, P.O. Khagaul, Patna, 800001.

Delhi

H. P. Industries, 69, Ind. Area, Najafgarh Rd., New Delhi 110015.

Harichand Kashmirilal, Naya Bazar, Delhi 110001.

Mohan Industry, 953, Mali Wada, C/o Devi Prashad & Co., Delhi 110006.

Gujarat

New Digvijaysinhji Tin Factory, Grain Market, Jamnagar 361001.

Karnataka

India Tin Industries Pvt. Ltd., Old Madras Rd., P.O. Durvaninagar, Bangalore 560001.

Madhya Pradesh

Ashoka Containers, 25/36, Ind. Estate (Pologround), Indore 452001.

Maharashtra

Azad Tin Factory, Azad House, 75/76 Reay Rd., Bombay 400010.

Standard Tin Works, Udyog Mandir, Kurla-Andheri Rd., Bombay 400072.

Uttar Pradesh

Agra Tin Mfg., Co., Belanganj, 4, Agra 282001.

G. G. Industries Pvt. Ltd., 8/390, Bheron, Belanganj, Agra 282001.

Hindustan Tin Works Pvt. Ltd., Post Box No. 1, G.T. Rd., Ghaziabad 201001.

United Chemical & Metal Works Pvt. Ltd., 7/109, Lal Bangalow, Swaroop Nagar, Kanpur 208001.

West Bengal

Balgopaldas Iron & Steel Co. Pvt. Ltd., 5, Gopal Doctor Rd., Kidderpore, Calcutta 700023.

Bengal Tin Box Manufg. Co. Pvt. Ltd., 1, Jadu Mitra Lane, Calcutta 700004.

Bharat Barrel & Drum Manufg., Co., Pvt. Ltd., 2, Garstin Place, Calcutta 700001.

Bharat Tin & Enamel Co. Pvt. Ltd., 2A, Shakespeare Sarani, Calcutta 700016.

Color Printing & Hollow Wares Ltd., 243, Acharya P. Chandra Rd., Calcutta 700001.

Containers & Closures Ltd., 2, Fairlie Place, Calcutta 700001.
Crown Cork Manufg. Co. (Cal.), 24, Sir Hariram Goenka St., Calcutta 700007.
D. G. Industries Pvt. Ltd., 35, Chittaranjan Ave., Calcutta 700012.
Dhur Galvg. Works (1955) Pvt. Ltd., 92, Ultadanga Main Rd., Calcutta 700004.
Ganga Tin Factory, 5, Raja Rajkissen St., Calcutta 700006.
Hind Enamel Co., 12, Madhuray Bye Lane, Calcutta 700006.
Hind Galvg. & Engg. Co. Pvt. Ltd., 96, Garden Reach Rd., Calcutta 700023.
Hind Tin Industries, 107-A Raja Dinendra St., Calcutta 700006.
Hindusthan Metal Products Syndicate, 243, Acharya P. Chandra Rd., Calcutta 700006.
Industrial Containers Ltd., 21, N. Subash Rd., Calcutta 700001.
Khemchand Rajkumar, 33, N. Subash Rd., Calcutta 700001.
Kohinoor Manufg. Corpn. Pvt. Ltd., 5/1, Rosemary Lane, Howrah 711101.
M. L. Day & Co., 57B, Chittaranjan Ave., Calcutta 700012.
Metal Products & Engg. Co., 124, M. Gandhi Rd., Calcutta 700007.
Metal & Tin Box Co. (I.) Pvt. Ltd., 233, G. L. Tagore Rd., Baranagore, Calcutta 700036.
Metal Wares & Printing Works, 3, Jagmohan Lane, Calcutta 700007.
National Alloy & Metal Works Pvt. Ltd., 17, N. C. Das Lane, Sinthee, Calcutta 700050.
Shyamnagar Tin Factory Pvt. Ltd., 62, Sri Nagendranath Rd., Satgachhi, Dum Dum, Calcutta 700028.
Sree Gopal Tin Factory Pvt. Ltd., 109B, Raja Dinendra St., Calcutta 700004.
Tinplate Co. of India Ltd., 4, Bankshall St., Calcutta 700001.

TIN PRINTERS & BOX MANUFACTURERS

Maharashtra

Kiv Trading Co., 1st Parsiwada, Khetwadi, Bombay 400004.
Metal Printers Co., Bhupen Chambers, Dalal St., Bombay 400001.
Oriental Containers Ltd., 1076, Dr. E. Moses Rd., Worli, Bombay 400018.
Poysha Ind. Co. Ltd., Tiecicon House, Dr. E. Moses Rd., Bombay 400011.
Zenith Tin Works Pvt. Ltd., K. Khadye Marg, Bombay 400034.

TINSEL POWDER

Progressive Ind., 36, Sutar Chawl, Bombay 400002.

TOBACCO PROCESSING MACHINERY

John Fowler India Ltd., Marshall's Bldg., S. Vallabhdas Marg, Bombay 400038.

TOILETRY MACHINES

Small Machinery Manufg. Co., 22, R. G. Kar Rd., Shambazar, Calcutta 700004.

TOOLS—CUTTING, MILLING CUTTERS, REAMERS, TWIST DRILLS

Delhi

Indian Tool Manufrs. Ltd., 2/11, Ansari Rd., Darya Ganj, Delhi 110006.
Laldee Pvt. Ltd., Vijaya Press Bldg., Naya Bazar, Delhi 110006.
Rib Taps (India) Pvt. Ltd., 399, Old P.O. St., Delhi 110006.
Tools & Equipment Pvt. Ltd., 6-13, Ind. Area, New Delhi 110015.

Karnataka

Jairamdas Udyog Pvt. Ltd., Silver Jubilee Park Rd., Bangalore 560001.
Omicron Tool Works, IV Main Rd., 15th Cross, Mallesvaram, Bangalore 560003.

Maharashtra

Bharat Tool Manufg. Co. Pvt. Ltd., Swastik Mill Compound, Fergusson Rd., Bombay 400013.
Crescent Iron & Steel Corpn. Ltd., Ind. Estates, Lalbaug, Bombay 400012.
Dagger Frost Tools Ltd., 1st Pokhran Rd., Thana 400601.
Gannon Dunkerley & Co. Ltd., Chartered Bank Bldg., Bombay 400001.
Patiala Tools Corpn., Giriraj, S. Tukaram Rd., Bombay 400009.
Repetitions Parts Pvt. Ltd., Agra Rd., Bhandup, Bombay 400078.
S. S. Miranda Pvt. Ltd., Mount Rd., Mazagaon, Bombay 400010.
Sandvik Asia Ltd., Pimpri, Pune 411018.
Super Tools Pvt. Ltd., Kalina, Santa Cruz, Bombay 400029.
Voltas Ltd., 19, Graham Rd., Bombay 400038.

Tamil Nadu

Addison & Co. Ltd., 158, Mount Rd., Madras 600002.
Burn & Co. Ltd., 158, Mount Rd., Madras 600002.
Orient Tools & Gauges Ltd., 65, N. M. Mudaliar Rd., Aminjikarai, Madras 600029.
S. R. P. Tools Ltd., Lattice Bridge, Madras 600041.
Threadwell Gauges & Tools Co., G-14, Ind. Estate, Madras 600058.
Tool Room Services Pvt. Ltd., B-21, Ind. Estate, Madras 600058.

West Bengal

A. K. Bhattacharya & Sons Pvt. Ltd., 35, Stephen House, Dalhousie Sq., Calcutta 700001.
Binani Metal Works Ltd., 38, Strand Rd., Calcutta 700001.
Hada Tools Ltd., 27-A, Camac St., Calcutta 700016.
Harbanslal Malhotra & Sons, Ltd., 12, New CIT Rd., Calcutta 700012.
Small Tools Manufg. Co. of India Ltd., P-17, Ganesh Chandra Ave., Calcutta 700013.
Taps & Dies Ltd., P-17, Mission Row Extn., Calcutta 700013.

TOOLS—DIAMOND

Bharat Diamond Ind., Nagin Mahal, V. Nariman Rd., Bombay 400001.
Bhukhanvala & Sons, Medows House, Medows St., Bombay 400001.
Diamond Cutting & Trdg. Co. Pvt. Ltd., Daya Mandir, Mumbadevi, Bombay 400003.
Engg. Tooling Equipment Co., 72/80, Nagdevi Cross Lane, Bombay 400003.
Forbes, Forbes Campbell & Co. Ltd., Forbes Bldg., Home St., Bombay 400001.
Industrial Diamond & Tool Co., 4, Bhagavatlal Lane, Madras 600003.

Industrial Diamonds & Tools Co., 7-B Sagar Vihar, 45 K. M. Munshi Marg, Bombay 400007.

Industrial Jewels Pvt. Ltd., Victoria Park, Bhavnagar 364001.

Killick Ind. Ltd., Killick Bldg., Home St., Bombay 400001

L. M. Van Moppes Diamond Tools India Ltd., Exide House, 150-B, Mount Rd., Madras 600002.

New India Hardware Mart, 152, N. Dhuru St., Bombay 400003.

Star Diamond Tools, 60, Sir P. Mehta Rd., Bombay 400001.

Voltas Ltd., Graham Rd., Bombay 400038.

TOOLS—DRILLING

Indian Minidrills Pvt. Ltd., 35/2, Residency Rd., Bangalore 560025.

Indian Tool Manufrs. Ltd., 101, Sion Rd., Sion, Bombay 400022.

Ingersoll-Rand (India) Pvt. Ltd., 44, M. A. Gaffar Rd., Worli, Bombay 400018.

Jairamdas Udyog Pvt. Ltd., 157-159, N. Dhuru St., Bombay 400003.

TOOLS—ENGINEERING

A. H. Bros. & Co., 2 Sarang St., Bombay 400003.

TOOLS—HAND & OTHER MISC. SMALL TOOLS

Andhra Pradesh

Praga Tools Corpn. Ltd., Secunderabad 500003.

Bihar

Tata Iron & Steel Co. Ltd., Jamshedpur 831001.

Haryana

Dhand Engrs. Pvt. Ltd., Ind. Area, Faridabad 121001.

Ratanchand Hajasrai (Plastics) Pvt. Ltd., Ind. Area, Faridabad 121001.

Karnataka

Mysore Implement Factory, Hassan 573201.

Mysore Tools Ltd., Mysore Rd., Bangalore 560026.

Maharashtra

Ace Tools Pvt. Ltd., B-5, Co-op. Ind. Estate, Nasik 422001.

Accurate Engineering Co. Pvt. Ltd., 67, Hadapsar Ind. Estate, Post Bag No. 1202, Pune 411013.

Asha Bros. Pvt. Ltd., 1-B, Patel Rd., Goregaon, Bombay 400063.

Bahco Taparia Tools Ltd., 20, Old Custom House Rd., Bombay 400001.

Chandulal Mehta & Co. Pvt. Ltd., 9, New Queen's Rd., Bombay 400004.

Echjay Ind. Pvt. Ltd., Kanjur Village Rd., Bombay 400078.

Lal-Roe Measuring Tools Pvt. Ltd., 19, Chinch Bunder, Bombay 400009.

Mapa Tools Pvt. Ltd., Gamdevi Rd., Bombay 400078.

Proto Machine Tools Manufg. Co. Pvt. Ltd., Dinesh Mills Compound, Agra Rd., Bhandup, Bombay 400078.

Rallis India Ltd., Ralli House, 21, Raveline St., Bombay 400001.

Shivaji Works Ltd., Tikekarwadi, Sholapur Dist.

Tools & Components Combine Pvt. Ltd., 10, Dhanji St., Bombay 400003.

Punjab

Doaba Hand Tools, Tanda Rd., Jullundur 144001.

Tamil Nadu

All Tools Pvt. Ltd., Singanallur, Coimbatore 641001.

Orient Tools & Gauges Ltd., 65, N. M. Mudaliar Rd., Madras 600029.

S. S. Engineering Works, 301, Tiruvottiyur High Rd., Madras 600081.

Uttar Pradesh

Delhi Iron & Steel Co. Ltd., Grand Trunk Rd., Ghaziabad 201001.

West Bengal

Agarwal Hardware Works Pvt. Ltd., 167, Chittaranjan Ave., Calcutta 700007.

Alfred Herbert India Ltd., 13/3, Strand Rd., Calcutta 700001.

Bardson & Co., 138, Biplabi R. B. Basu Rd., Calcutta 700001.

Bengal Tools Ltd., 251-1, Nagendranath Rd., Calcutta 700028.

Bharat Shovel Works Pvt. Ltd., 15-1, Jorabagan St., Calcutta 700006.

Dominion Hardware Stores, 40, Strand Rd., Calcutta 700001.

East Coast Enterprises Ltd., 33, Brabourne Rd., Calcutta 700001.

Eastern Cutleries & Tools Manufg. Co. Pvt. Ltd., P.O. Jhalda, Purulia 723101.

Harbanslal Malhotra & Sons Pvt. Ltd., 18, N. Subash Rd., Calcutta 700001.

Jay Engg. Works Pvt. Ltd., 183, P. Anwarshah Rd., Calcutta 700001.

Metal Box Co. of India Ltd., 58-C, Chowringhee St., Calcutta 700020.

Stamping & Tools Pvt Ltd., 42-1, Strand Rd., Calcutta 700007.

Sudson Pvt. Ltd., 3, Esplanade East, Calcutta 700001.

Tools & Engg. Co. Pvt. Ltd., 2, Dalhousie Sq. East, Calcutta 700001.

TOOLS—MACHINE

Andhra Pradesh

Hindustan Machine Tools Ltd., Balanagar, Hyderabad 500037.

Delhi

Ameteep Machine Tools Pvt. Ltd., 503 Suriya Kiran Bldg. 19, K. Gandhi Marg, New Delhi 110001.

Ashoka Machine Tools Corpn., 8712-13, Aram Ganj, Roshanara Rd., Delhi 110007.

Indudyog Co. Pvt. Ltd., 40 Okhla Ind. Estate, Okhla, New Delhi 110020.

Motor & Machinery Manufrs. Ltd., 8, Sunder Nagar, New Delhi 110003.

Prem Engg. Works, 22, Okhla Ind. Estate, New Delhi 110020.

United Machine Tools Corpn., 18, D.L.F. Ind. Area, Najafgarh Rd., New Delhi 110015.

Gujarat

Gandhi Group Ind., F-4, Ind. Township, Naroda, Ahmedabad 380001.

Gujarat Machine Tools Ind., 1/10, Ind. Estate, Vadodara 390003.

Laxmi Vijay Brass & Iron Works, 647, Gheekanta Rd., Ahmedabad 380001.

Yo-tana Machine Tools, Mill Officer's Colony, Behind La Gajjar Chambers, Ashram Rd., Ahmedabad 380009.

Karnataka

Bharat Fritz Werner Pvt. Ltd., Peenya, Bangalore 560022.
Jyothi Ind., A-18, H.M.T. Ind. Estate, Bangalore 560031.
Sri Venkateshwara Enterprises, B-09, H.M.T. Ind. Estate, Bangalore 560031.

Maharashtra

Alex Machine Tools, 2, Sidhpura Ind. Estate, S. Vivekanand Rd., Goregaon West, Bombay 400062.
Alfred Herbert (I) Ltd., Kaiser-i-Hind Bldg., Sprott Rd., Ballard Estate, Bombay 400038.
Bharat Fritz Werner Pvt. Ltd., D-27, Commerce Centre, Tardeo, Bombay 400034.
Bharat Tool Manufg. Co. Pvt. Ltd., Ferguson Rd., Lower Parel, Bombay 400013.
Godrej & Boyce Manufg. Co. Pvt. Ltd., Godrej Bhavan, Home St., Bombay 400001.
Industrial Machinery Manufrs., 14-B, Kurla Ind. Estate, Agra Rd., Ghatkopar, Bombay 400086.
Industrial Machinery & Tools Corpn., Gokhale St., Bombay 400004.
Janata Machine Tools Ltd., Majiwada, Thana 400601.
Machinery Manufg. Corpn., 68, Medows St., Bombay 400001.
Macphil & Co. Pvt. Ltd., B-3, Wagle Ind. Estate, Panchpakhadi, Thana 400601.
Super Tool Co. Pvt. Ltd., Kalina, Santa Cruz, Bombay 400029.
Tata Engg. & Loco. Co. Ltd., Bombay House, Bruce St., Bombay 400001.
Thakoor Machines & Tools Pvt. Ltd., "Yojana", M. Vasanji Rd., Marol Naka, Andheri East, Bombay 400059.
Tekma Ind., 48B, Saki Vihar Rd., Saki Naka, Bombay 400072.
Y. A. Hazare & Bros., 1st Panjrapole Lane, Bombay 400004.

Tamil Nadu

Sri Lakshmi Engineers, 123, Cross Cut Rd., Gandhipuram, Coimbatore 611012.

West Bengal

Alfred Herbert India Ltd., 13/3, Strand Rd., Calcutta 700001.
Asia Engg. Supply Stores, Pvt. Ltd., P-15, Bentinck St., Calcutta 700007.
Boyd Smiths Pvt. Ltd., B-5, Gillanders House, N. Subhash Rd., Calcutta 700001.
Continental Plant Machinery Co. Pvt. Ltd., 16 Hare St., Calcutta 700001.
Industrial Plants Ltd., "Industry House", 10, Camac St., Calcutta 700017.
Jessop & Co. Ltd., 63, N. Subash Rd., Calcutta 700001.
Machine Tools & Appliances India Co., 12-B, N. Subhash Rd., Calcutta 700001.
National Ind. Impex Corpn., 35, Stephen House, Calcutta 700001.
Oriental Electric & Engg. Co., National Tobacco Bldg., 1, Old Court House Corner, Calcutta 700001.
Paul's Engg. Co., P-7, N. Paul Rd., Howrah 711105.

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Delhi

Didwania Bros. Pvt. Ltd., Kashmeregate, Delhi 110006.
Industrial & Mining Equipment Co. Pvt. Ltd., 4/2, Roop Nagar, Delhi 110007.
K. G. Khosla & Co., Pvt. Ltd., 1, D. Gupta Rd., New Delhi 110055.
Pneumatic Spares Ind., 1778, Lal Kuan, Delhi 110006.

Gujarat

Engg. Corpn. of India Ltd., Sidhpur.
SLM-Maneklal Ind. Ltd., Vatva, Taluka Dascroi, Ahmedabad Dist.

Maharashtra

Air Control & Chemical Engg. Co. Ltd., Dr. A. Besant Rd., Bombay 400018.
Atlas Capco (India) Ltd., M. Gandhi Memorial Bldg., N. Subash Rd., Bombay 400002.
Consolidated Pneumatic Tool Co. (I) Ltd., 301/302 Agra Rd., Mulund, Bombay 400080.
Hindustan Engineers, 501-A, Commerce House, N. Master Rd., Bombay 400001.
Indo Air Ind., 49, Municipal Ind. Estate, Off E. Moses Rd., Worli, Bombay 400018.
Ingersoll-Rand (India) Pvt. Ltd., 44, M. A. Gaffar Rd., Worli, Bombay 400018.
Iron & Metal Traders Pvt. Ltd., P.B. 6210, Bombay 400010.
Kirloskar Pneumatic Co. Ltd., Hadapsar Ind. Estate, Pune 411013.
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Punjab

Apollo Machine Tools Manufg. Co., Sultanwind Rd., Amritsar 143001.

Rajasthan

Hydor India Ltd., Kotah 324001.

Tamil Nadu

Elgi Equipment Pvt. Ltd., India House, Coimbatore 641001.

K. N. D. Tool & Equipment Co., Mettupalayam Rd., P.O. Saibaba Mission, Coimbatore 641011.

West Bengal

Boyd Smiths Pvt. Ltd., B-5, Gillanders House, N. Subhash Rd., Calcutta 700001.

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Karnataka

Widia (India) Ltd., Tumkur Rd., Bangalore 560022.

Maharashtra

Afco Ltd., 253, A-Z Ind. Estate, Fergusson Rd., Bombay 400013.

Arifta Die & Tool Engrs, Plot A-20, Marol Ind. Area, Off Mahakali Caves Rd., Andheri East, Bombay 400059.

Asha Bros. Pvt. Ltd., 1-B. Patel Rd., Bombay 400063.

Bahco Taparia Tools Ltd., 20, Bhagat Singh Rd., Bombay 400001.

Electro Slush Co. Pvt. Ltd., Janmabhoomi Bhavan, Ghogha St., Bombay 400001.

Fit Tight Nuts & Bolts Ltd., Kurla, Andheri Rd., Bombay 400069.

Forbes, Forbes Campbell & Co. Pvt. Ltd., Forbes Bldg., Home St., Bombay 400001.

Gannon Norton Metal & Diamond Dies Ltd., Chartered Bank Bldg., Bombay 400001.

Horstman India Pvt. Ltd., Nagar Rd., Pune 411014.

Keming Tools Co. Pvt. Ltd., 165/1, Kolshet Rd., Thana 400601.

KIV Group Ind., Sun Mill Compound, Lower Parel, Bombay 400013.

Nanavati Dies & Tools Pvt. Ltd., P. B. No. 6854, Bombay 400057.

Pitty Bros. Pvt. Ltd., 20, Hamam St., Bombay 400001.

Poona Measuring Tools Co., 60, East Kirkee, Pune 411002.

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Super Automats, 27, Nand Deep, Opp. Marol Bazar, Andheri (East), Bombay 400059.

Addison & Co., Pvt. Ltd., 158, Mount Rd., Madras 600002.

J. Stead & Co. Pvt. Ltd., D-19, Ambattur, Ind. Estate, Madras 600058.

Harig (India) Pvt. Ltd., G. T. Rd., Mahannagar, Ghaziabad 201001.

Burn & Co. Ltd., 12, Mission Row, Calcutta 700001.

Dies & Tools Ltd., 11, R. N. Mukherjee Rd., Calcutta 700001.

Guest Keen Williams Ltd., 3A, Shakespeare Sarani, Calcutta 700016.

Holman Climax Manufrs. Ltd., Titaghur.

Mukerji & Shah, 36, Panditia Rd., Calcutta 700029.

New Dominion Engg. Works, 1/B, Pollery Rd., Calcutta 700015.

Nipha Machinery Manufrs. Pvt. Ltd., 25, N. Subash Rd., Calcutta 700001.

Precision Products of India, 10-A, Creek Lane, Calcutta 700014.

Precision Tools India Ltd., 2, Fairlie Place, Calcutta 700001.

TOOLS—TUNGSTEN CARBIDE

Addison & Co. Pvt. Ltd., 158, Mount Rd., Madras 600002.

Asian Tools Trdgs. Co., 24, Nagdevi Cross Lane, Bombay 400003.

Champion Engg. Works Pvt. Ltd., S. Vivekananda Rd., Bombay 400062.

Engg. Tools Syndicate, 111, N. Dhuru St., Bombay 400003.

Christensen Longyear (India) Ltd., L.T. House, Dougal Rd., Bombay 400001.

Dies & Tools Ind., 13, Jessore Rd., Calcutta 700028.

India Hard Metals Ltd., 58, M. Gupta Rd., Calcutta 700008.

Indian Tools Manufrs. Ltd., 101, Sion, Bombay 400022.

Micro Tools Ltd., C.I.T. Colony, Madras 600004.

Shama Forge Co. Ltd., Belasia Rd., Bhopal 462001.

Usha Forging & Stamping Ltd., 3, Parliament St., New Delhi 110001.

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Plastifoams Pvt. Ltd., 4, Meher Bldg, Chowpatty, Bombay 400007.

Raja Mechanical Co. Pvt. Ltd., 30, Deputy Gunj, Delhi 110006.

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Chopra Tractor & Auto Traders, B-4/7, Model Town, Delhi 110009.

Escorts Ltd., 11, Scindia House, Connaught Circus, New Delhi 110001.

Verma Trdg. Co., S. P. Mukherji Marg, Delhi 110006.

Gujarat

Hindustan Tractors Ltd., Vishwamitri, Vadodara 390001.

Haryana

Eicher Tractor Corpn. (India), Pvt. Ltd., Faridabad 121001.

Indian Landsbury Implement Corpn. Pvt. Ltd., Faridabad 121001.

Karnataka

Bharat Earth Movers Ltd., Unity Bldgs., Jayachamarajendra Rd., Bangalore 560002.

Hindustan Machine Tools Ltd., Bangalore 560031.

U.S.T. Tiller Tractors Ltd., M. Gandhi Rd., Bangalore 560001.

Maharashtra

International Tractor Co. of India Ltd., Akurli Village, Kandivli, Bombay 400067.

Maharashtra Co-op. Engg. Soc. Ltd., Shiroli, Kolhapur 416001.

Tata Engg. & Loco. Co. Ltd., Bombay House, Bruce St., Bombay 400001.

Tractor Engrs. Ltd., Saki-Vihar Rd., Powai, Bombay 400072.

Punjab

Punjab Tractors Ltd., Sector 9-A, Chandigarh 160017.

Tamil Nadu

Trac Ind. & Components Ltd., 12, Cenotaph Rd., Madras 600018.

Tractor & Farm Equipment Ltd., 11, Kothari Rd., Madras 600014.

Uttar Pradesh

Track Parts of India, Star Press Bldg., The Mall, Kanpur 208001.

West Bengal

Ganesh Trdg. Corpn., 36, Ezra St., Calcutta 700001.

TRAILERS & TROLLIES

(See under Material Handling Equipment).

TRANSFORMERS

Andhra Pradesh

Electric Transformer & Equipment Co., 7-1-60, D. Karan Rd., Amirpet, Hyderabad 500016.

Bihar

Electric Equipment Factory, Punaichak, Patna 800001.

Delhi

Indian Technological Products, Technological House, 21, Babar Rd., New Delhi 110001.

Gujarat

Amul Transmission Line Hardware Pvt. Ltd., Parikh Estate, Dabhoi Rd., Vadodara 390004.

Ashok Mactools, Rd. No. 12, Udyognagar, Udhna, Surat Dt.

Johnson Electric Co., Fatehganj, Chhani Rd., Vadodara 390002.

Transasia Transformers Pvt. Ltd., 86, Ind. Estate, Naroda, Ahmedabad.

Voltamp Transformers Pvt. Ltd., Bavia, Taluka Dholka, Ahmedabad Dist.

Karnataka

Electric Power Devices Co., Canara Mutual Bldg., 4, Residency Rd., Bangalore 560025.

Government Electric Factory, Mysore Rd., Bangalore 560026.

Kirloskars Electric Co. Ltd., Ind. Suburb, Rajajinagar, Bangalore 560010.

NGFF Ltd., Byappanahalli, Off Old Madras Rd., Bangalore 560001.

Swicon Pvt. Ltd., 20, Moyenville Rd., Langford Town, Bangalore 560025.

Kerala

Kerala Electric & Allied Engg. Co. Ltd., Kundara, Quilon 691001.

Maharashtra

Apex Electricals Pvt. Ltd., 4-Padam No. 1, Pedder Rd., Bombay 400026.

Bajaj Electricals Ltd., 45-47, V. Nariman Rd., Bombay 400001.

Bharat Bijli Ltd., Udyognagar, Near King's Circle Rly. Stn., Bombay 400022.

C.T.R. Manufg. Ind. Ltd., Nagar Rd., Pune 411014.

Crompton Greaves Ltd., 1, Forbes St., Bombay 400001.

Emco Transformers Ltd., Ballard House, Mangalore St., Ballard Estate, Bombay 400038.

G. B. Advani-Oerlikon Electrodes Pvt. Ltd., Radio House, 6, Rampart Row, Bombay 400001.

Hindustan Brown Boveri Ltd., Brown Boveri House, 264-265, Dr. A. Besant Rd., Bombay 400025.

Kirti Electricals Pvt. Ltd., Shembekar Ind. Comp., Chinchwad, Pune 411019.

National Electrical Ind. Ltd., Ind. Estate, Lalbaug, Bombay 400012.

National Electrical Ind. Ltd., 5/4, Nagar Rd., Pune 411014.

Star Delta Electricals, 135A, M. Azad Rd., Bombay 400008.

Sukson Eltronix Corpn., 16/3, Jawaharnagar, Road No. 2, Goregaon (West) Bombay 400062.

Punjab

Beegee Corpn., Pvt. Ltd., 25, Factory Area, Patiala 147002.

Tamil Nadu

Hackbridge Hewittic & Easun Ltd., 5-7, Second Line Beach, Madras 600001.

Transformers and Switchgear Ltd., 116/117, Moore St., Madras 600001.

West Bengal

Andrew Yule & Co. Ltd., 77, Park St., Calcutta 700016.

Associated Electrical Ind. Ltd., Crown House, 13, R. N. Mukherjee Rd., Calcutta 700001.

Biecco Lawrie Ltd., 21, N. Subash Rd., Calcutta 700001.

British India Electric Construction Co., 21, N. Subash Rd., Calcutta 700001.

East India Electricals, 38, N. Subash Rd., Calcutta 700001.

Electric Construction and Equipment Co. Ltd., 9, K. Singhee Rd., Calcutta 700002.

Elvoc Pvt. Ltd., 36, Panditia Rd., Calcutta 700029.

General Electric Co. of India Ltd., Magnet House, 6, Chittaranjan Ave., Calcutta 700013.

Hengers India Pvt. Ltd., Narayani, 27, Brabourne Rd., Calcutta 700001.

Hooghly Marine & Engg. Co., 27/2C, Strand Rd., Calcutta 700001.

India Radio Manufg. Co., 18, Chandni Chowk St., Calcutta 700013.

Marson's, 4 Chandni Chowk St., Calcutta 700013.

Radio and Accessories (India) Pvt. Ltd., 3, Madan St., Calcutta 700013.

TUBES, PIPES & FITTINGS

(Also see Pipes & Fittings).

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Triniti Metal Ind., A-5, Co-op. Ind. Estate Ltd., Balanagar, Hyderabad 500037.

Ushasri Ind., C-12, Co-op. Ind. Estate, Balanagar, Hyderabad 500037.

Assam

Assam Tubes Ltd., Sibsagar 785640.

Bihar

Stewart & Lloyds of India Ltd., Jamshedpur.

Delhi

Bharat Steel Tubes Ltd., Allahabad Bank Bldg., 17, Parliament St., New Delhi 110001.

Chandigarh Spun Pipe Co., 181, Golf Links, Delhi 110003.

G.F.R. & Co. Pvt. Ltd., 8200/XIV Chimy Mill St., Bara Hindu Rao, Delhi 110006.

Jindal Ind. Pvt. Ltd., 15/1, A. Ali Rd., New Delhi 110001.

Karori Engg. Works, 16, Najafgarh Rd., New Delhi 110015.

Nangal Spun Pipe Co., 181 Golf Links, Delhi 110003.

National Metal Craft, 8/32, Ajmeri Gate, Delhi 110006.

United Steel Ind., X-242, Near Delhi Gate, Delhi 110006.

Gujarat

Baroda Rolling Mills Pvt. Ltd., Chhani Rd., Vadodara 390002.

Foldage Ind. Pvt. Ltd., Dhebarbhai Rd., Rajkot 360001.

Gujarat Steel Tubes Ltd., Kali Village, Sabarmati, Ahmedabad 380005.

Shri Ambica Tubes, Kankaria Loco Siding, Ahmedabad 380008.

Zaverchand, Gaekwad Pvt. Ltd., Padra Rd., Vadodara 390001.

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Chamalal & Bros., Faridabad 121001.

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Dodsal Pvt. Ltd., Mafatlal House, Backbay Recl., Bombay 400020.

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M. M. Ebrahimji & Co., 147 Nagdevi St., Bombay 400003.
Metal Extruders (India) Pvt. Ltd., Kamani Chambers, Nicol Rd., Bombay 400038.
Rasiklal Kantilal & Co., 145, Kika St., Bombay 400004.
Zenith Steel Pipes Ltd., Moti Mahal, 195, Churchgate Recl., Bombay 400020.

Orissa

Kalinga Tubes Ltd., P.O. Chowdwar, Cuttack Dist.

Rajasthan

Indo-Flex Pvt. Ltd., Jaipur 302001.

Tamil Nadu

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Madras Tube Co. Ltd., 7, Boat Club Rd., Madras 600028.
Sakthi Pipes Ltd., 4, Smith Rd., Madras 600002.
Tube Investment of India Ltd., N. Beach Rd., Madras 600001.
Tubes & Malleables Ltd., 99, Armenian St., Madras 600001.
Tubes Products of India Ltd., 52-53, Jehangir St., Madras 600001.

Uttar Pradesh

Reliable Water Supply Services of India Ltd., 17, Gokhale Marg, Lucknow 226001.

West Bengal

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Bharat Steel & Metal Ind., 14/2, Old China Bazar St., Calcutta 700001.
Castings Corpn. (India) Pvt. Ltd., 45, M. P. Chowdhury Lane, Howrah 711101.
Hind Overseas (Pvt.) Ltd., 7, N. P. Babu Lane, Calcutta 700016.
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Jindal India Pvt. Ltd., Lillooah, Howrah 711101.
Kaiser Corpn., 135, B. R. Basu Rd., Calcutta 700001.
Kamala Sheet Metal Ind. Pvt. Ltd., 98 & 99, Beliaghata Main Rd., Calcutta 700010.
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Laxmi Trdg. Co., 192, J. Bajaj St., Calcutta 700007.
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Miller & Co. (Calcutta) Pvt. Ltd., 24, N. Subash Rd., Calcutta 700001.
Orr Dignam & Co., 27, N. Subash Rd., Calcutta 700001.
Patcon Pvt. Ltd., 7A, Elgin Rd., Calcutta 700020.
Planter's Stores & Engg. Co., Mercantile Bldg., 9, Lallbazar St., Calcutta 700001.
Rajasthan Pipes Pvt. Ltd., Bochhraj Rd., Nimtu, Calcutta 700001.
S. N. & Co., 18/1, S. N. Das Lane, Calcutta 700006.
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Shina Engg. Works, 2, India Exchange Place, Calcutta 700001.
Shree Hanuman Steel Works, 21-B, Canning St., Calcutta 700001.
Stewarts & Lloyds of India Ltd., 41, Chowringhee Rd., Calcutta 700016.
Surma Tubes Pvt. Ltd., C-3, Gillander House, 8, N. Subash Rd., Calcutta 700001.

TUBEWELL ACCESSORIES

Calcutta Filter Manufg. Co., 62/1A, N. Subash Rd., Calcutta 700001.
Delhi Engg. Works Pvt. Ltd., 454, Azadpur, Delhi 110033.
Hyderabad Alloy Foundries Pvt. Ltd., 5-3-960/1, J. Nehru Rd., Hyderabad 500001.
Kadakia Trdg. Corpn., 3, Bibijan St., Bombay 400003.
Reliable Water Supply Service of India Pvt. Ltd., 1/11, E. Patel Nagar, New Delhi 110008.
Wellwater Services Pvt. Ltd., P. K. Law Bldg., 63, Radha Bazar St., Calcutta 700001.

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Govt. Ind. Engg. & Workshop, Washermanpet, Madras.
Larsen & Toubro Ltd., L & T House, Ballard Estate, Bombay 400038.
Reliable Water Supply Services of India Ltd., P.O. Box 113, 30 Hazarat Gunj, Lucknow.

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(See Steel Tubular Poles etc. in this list.)

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Loyala Corpn. Madras Pvt. Ltd., 1-55, Mount Rd., Madras 600001.

Rai & Sons Pvt. Ltd., 9-19, Connaught Place, New Delhi 110001.

Remington Rand of India Ltd., Remington House, 3, Council House St., Calcutta 700001.

Sumathi Industries, 57A., Mount Rd., Madras 600015.

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Champion Engg. Works Pvt. Ltd., S. Vivekanand Rd., Bombay 400062.

Ebrahim Currim & Sons, 251, N. Subash Rd., Madras 600001.

Hind Umbrella Manufg. Co., 201, Chakla St., Bombay 400003.

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Eagle Vacuum Bottle Manufg. Co. Pvt. Ltd., 144, S. Devji St., Bombay 400003.

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R. K. Engg. Enterprises, P. O. Mudial, Perumbavoor, Kerala.

Shimada Glass & Flask Factory Pvt. Ltd., 55, Konnur High Rd., Madras 600023.

Victory Flask Co. Pvt. Ltd., Kachwadi, Govandi, Bombay 400071.

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Karnataka

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Pankaj Trdg. Corpn., 25, Bibijan St., Nagdevi, Bombay 400003.

Tamil Nadu

British & Eastern Engg. Co., 16 Gen. Patters Rd., Madras 600002.

West Bengal

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Calcutta Crucible Works, 52, K. Mitra Lane, Salkhia, Howrah 711101.

City Engg. Co., 18, Raja Woodmunt St., Calcutta 700001.

Eastern Millstores Corpn., 113, G. N. Subash Rd., Calcutta 700001.

Indian Valve Co., 4, Fairlie Place, Calcutta 700001.

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Shiva Engg. Works, 2, India Exchange Place, Calcutta 700001.

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Oriental Electric & Engg. Co., 1, Old Court House Corner, Calcutta 700001.

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(See under 'Screens-Vibratory', in this list.)

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Indo French Time Ind. Ltd., Udyognagar, S. Vivekanand Rd., Bombay 400062.

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Acme Scales Corpn., 324 C. Grant Rd., Bombay 400007.
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Prakash Ind., 171-A, Ramnagar Extn., Delhi 110051.

Sham Ravindra & Co., 23, New Qutab Rd., Delhi 110006.

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Bharat Forge & Press Ind., Plot No. 35, G.I.D.C. No. 2/A1, Makarpura Ind. Estate, Vadodara 390009.

Cema Pvt. Ltd., Opp. D. Cabin, Chhani Rd., Vadodara 390001.

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Dowell's Elektro Works, Satguru Estate, Off Aarey Rd., Goregaon (East), Bombay 400063.

Fatehchand & Co., 118 Arun Chambers, Tardeo Rd., Bombay 400034.

General Engg. Corpn., Samroz Ind. Estate, Bombay 400062.

Hasnuk Traders, 8 Shobha Sadan, Goregaon W., Bombay 400062.

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Rockweld Electrodes India Ltd., 29, Ind. Estate, Ambattur, Madras 600058.
Veera Engineering Works, 39, Vepery High Rd., Periyamet, Madras 600003.

Uttar Pradesh

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(See 'Wire Products' in this list.)

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Karnataka

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Bombay 400003.

Phone : **321927.** Grams : **" ZINKSHEET ".**

Bombay Wire Ropes Ltd., Kolshet Rd., Thana 400601.
Eldee Wire Ropes, 3, Broach St., Bombay 400009.
Great India Net Industry, 10, Bruce St., Bombay 400001.
Harishchandra & Co., 233 A. Rehman St., Bombay 400003.
Hindustan Transmission Products, Shree Niketan, F Block, Shiv Sagar Estate, Worli, Bombay 400018.
Hindustan Wire Netting Co. Pvt. Ltd., Agra Rd., Thana 400601.
Mohatta & Heckel Ltd., Mustafa Bldg., Sir P. Mehta Rd., Bombay 400001.
N. J. Metal Screens Manufrs. Pvt. Ltd., 134, N. Master Rd., Bombay 400001.
National Wire & Wire Products, 36, Tamarind Lane, Bombay 400001.
National Wire Heald Works Pvt. Ltd., Lakshmi Bldg., Sir P. Mehta Rd., Bombay 400001.
Nemat Wire Netting Products, 145, Nagdevi St., Bombay 400003.
Shree Ganesh Wire Ind., Ram Nivas, M. Gandhi Rd., Ghatkopar, Bombay 400086.
Siri Ram & Co., 97, Narayan Dhuru St., Bombay 400003.
Standard Wire Products, A. Rehman St., Bombay 400003.

Punjab

Kaithal Co-op. Ind. Wire Netting Soc. Ltd., Kaithal.

Tamil Nadu

Jeetmull Jaichandlall, 171/173, Nainiappa Naicken St., Post Box No. 509, Madras 600003.
Kiran Wire Netting Co., 260, Rasappa Chetty St., Madras 600003.
Matchless Wire Products, 1/19A, T. R. Mudali St., Kondithope, Madras 600001.
Modi Steel Wire Manufg. Co., 'Modi House', 10-B, K. R. Iyengar Rd., Alwarpet, Madras 600018.
Swiss Welded Mesh Co. Pvt. Ltd., A-7, Ind. Estate, Madras 600058.
Wirenetting Industries Corpn., 17, Randalls Rd., Vepery, Madras 600007.

Uttar Pradesh

Bhagwandas Shrikrishna, 58/5, Birhana Rd., Kanpur 208001.
Popular Wire Nettings, 31, Bazar Sadanand, Varanasi 221001.

West Bengal

Bengal Sheet Metal Works, 19-B, B. B. Ganguly St., Calcutta 700012.
Bengal Wire Syndicate, 63, Sir Hariram Goenka St., Calcutta 700001.
Bharat Wire Netting Factory, 113, N. Subash Rd., Calcutta 700001.
Birani & Co., 62/1A, N. Subhash Rd., Calcutta 700001.
Fort William Co. Ltd., 14, N. Subash Rd., Calcutta 700001.
Hind Wire Industries Ltd., P-16, Kalakar St., Calcutta 700007.
Hindustan Wires Ltd., 16/5, Chowringhee Rd., Calcutta 700013.
Hindustan Wire Products Ltd., 14, N. Subash Rd., Calcutta 700001.
Hooghly Wire & Wire Netting Syndicate, 113E, N. Subash Rd., Calcutta 700001.
India Commerce & Industries Corpn., 32, Armenian St., Calcutta 700001.
Indian Steel & Wire Products Ltd., 7, Wellesley Place, Calcutta 700001.
Indo-American Electricals Ltd., 21, Old Court House St., Calcutta 700001.

J & K Steel and Industries Ltd., 2, Mangoe Lane, Calcutta 700001.
Jeetmull Jaichandlall, 109, N. Subash Rd., Calcutta 700001.
Kanji Pannachand Pvt. Ltd., 33, Armenian St., Calcutta 700001.
M. S. Industries, P-10, New Howrah Bridge Approach Rd., Calcutta 700001.
Murarka (Overseas) Co., 156, Jamunalal Bajaj St., Calcutta 700007.
National Rolling & Steel Ropes Ltd., 'Nicco House', 2, Hare St., Calcutta 700001.
Novelty Engg. Works, Brojnath Lahiri Lane, Santragachh, Howrah 711106.
S. E. A. Corpn. (India) Pvt. Ltd., P-22, Swallow Lane, Calcutta 700001.
Sonthalia & Co., 71, Jamunalal Bajaj St., Calcutta 700007.
Steel & Wire Products (India), 38, B. K. Paul Ave., Calcutta 700005.
Sterling Products Co., 5, Clive Row, Calcutta 700001.
Thisa (India) Pvt. Ltd., E-2, Gillander House, 8, N. Subash Rd., Calcutta 700001.
Usha Martin Black (Wire Ropes) Ltd., 14, Princep St., Calcutta 700013.
Wire Crafts Ltd., 8, Lyons Range, Calcutta 700001.

WIRES, CABLES & ACCESSORIES

Andhra Pradesh

Gangappa Cables Ltd., Uppal Rd., Hyderabad 500039.
Minicon Insulated Wires Pvt. Ltd., A-6, Ind. Estate, Sanatnagar, Hyderabad 500018.

Delhi

Aggarwal Cable Works, 3303, Bazar Sitaram, Delhi 110006.
Allied Agencies, 1399, Pahari Imli, Jama Masjid, Delhi 110006.
Bharat Cable Manufg. Co., 1051, Bazar Sita Ram, Delhi 110006.
Biren Manufg. & Co., 7, Ansari Rd., Daryaganj, Delhi 110006.
Chowdhry Instrumentation, 110, Model Basti, New Delhi 110005.
Delton Cable Ind. Pvt. Ltd., 'Delton House', 24 Daryaganj, Delhi 110006.
Elite Cable Manufg. Co., 308/14, Shazadabagh, Old Rohtak Rd., Delhi 110007.
Evershine Electrical Works (I), 10/60, Ind. Area, Kirti Nagar, New Delhi 110015.
Kaycee Electricals, 1854, Bhagirath Palace, Delhi 110006.
Lakshmi Cable Co., A/6, Jhilmil Tahirpur Ind. Area, Grand Trunk Rd., Shahdara, Delhi 110032.
Mervfur Industries, Behind State Bank, Chandni Chowk, Delhi 110006.
Premier Cable Co. Ltd., 14/15-F, Connaught Place, New Delhi 110001.
Siemens India Ltd., B-5, Jangpura, Mathura Rd., New Delhi 110014.
Victor Cables Corpn., 5775, Sadar Bazar, Delhi 110006.

Gujarat

General Electricals & Mechanical Corpn., Ind. Estate, Vadodara 390007.
Mahendra Electricals Ltd., Kamla Mission Rd., Nadiad 387001.
Power Cables Pvt. Ltd., 40, Alkapuri, Vadodara 390001.

Haryana

Skyline Electricals (India), 43 Ind. Area, Faridabad 121001.

Karnataka

Aluminium Cables & Conductors, A-82, Ind. Estate, Rajajinagar, Bangalore 560044.
Deepak Insulated Cable Corpn. Ltd., Industry House, 45, Fair Field Rd., Bangalore 560001.
Mohan Aluminium Pvt. Ltd., P.O. Virgonagar, Bangalore 560049.
Mysore Wire & Metal Ind., 13, IVth Cross, Magadi Rd., Bangalore 560023.

Kerala

Aluminium Ind. Ltd., No. 1, Ceramic Factory Rd., Kundara.
Premier Cable Co. Ltd., Karukutty, Angamally, Ernakulam 682001.

Madhya Pradesh

Universal Cables Ltd., P.O. Birla Colony, Satna 485001.

Maharashtra

Ajit Wire Ind. Pvt. Ltd., 58, Sir M. Vissanji Rd., Andheri East, Bombay 400059.
All-India Electrical Engg. Co., 199 Princess St., Bombay 400002.
Asian Cables Corpn. Ltd., Nirmal, 241/242, Backbay Recl., Nariman Point, Bombay 400001.
Bhandary Metallurgical Corpn. Pvt. Ltd., Bhandary Estate, Sion-Chembur Rd., Kurla East, Bombay 400070.
Bharat Insulation Co., Plot No. B-32, Rd. No. 18, Wagle Ind. Estate, Thana 400604.
Bombay Insulated Cables & Wires Co., 10, Himalaya House, Palton Rd., Bombay 400001.
Cable Corpn. of India Ltd., Laxmi Bldg., 6, Ballard Rd., Bombay 400038.
Crompton Greaves Ltd., 1, Forbes St., Bombay 400001.
Devidayal Cable Ind. Ltd., Reay Rd., Bombay 400010.
Henley Cable India Ltd., Henley House, Ballard Estate, Bombay 400038.
Hindustan Transmission Products, Shree Niketan, 'F' Block, Shiv Sagar Estate, Dr. A. Besant Rd., Worli, Bombay 400018.
Markeel Pvt. Ltd., Shreeji Bhavan, Lohar Chawl, Bombay 400002.
Oriental Power Cables Ltd., Radio House, Apollo Pier Rd., Bombay 400001.
Ravin Trdg. Co., 5 Mohatta Market, Palton Rd., Bombay 400001.
Record Electricals Pvt. Ltd., 'Record House', 30, Ind. Estate, M. Gandhi Rd., Kandivli (West), Bombay 400067.
Shakti Insulated Wires Pvt. Ltd., 22, Apollo St., Bombay 400001.
Shamsher Sterling Cable Corpn. Ltd., Vaswani Mansion, D. Vachha Rd., Bombay 400001.
Siemens India Ltd., 134-A, Dr. A. Besant Rd., Worli, Bombay 400018.
Special Steels Ltd., New India Centre, 17, Cooperage Rd., Bombay 400001.
Special Steels Ltd., Dattapada Rd., Borivli East, Bombay 400066.
Tenby India (Pvt.) Ltd., Hamam House, A. Doshi St., Bombay 400001.
Todi Ind. Pvt. Ltd., Todi Estates, Lower Parel, Bombay 400013.

Orissa

Hira Cable Works, P.B. No. 78, Bhubaneswar 751001.

Punjab

Industrial Cables (India) Ltd., Ind. Area, Rajpura 147001.

West Bengal

Electrical Ind. Corpn., 49/1 Gariahat Rd., Calcutta 700019.
Everlite Insulating Ind. Pvt. Ltd., 137, B. Roy Rd., West, Calcutta 700061.
Express Cables Pvt. Ltd., 51, Stephen House, 4, B.B.D. Bagh, Calcutta 700001.

Fort Gloster Ind. Ltd., 21, Strand Rd., Calcutta 700001.
ndian Cables Co. Ltd., 9, Hare St., Calcutta 700001.
ndo-American Electricals Ltd., 21, Old Court House St., Calcutta 700001.
Universal Cables Ltd., 15, India Exchange Place, Calcutta 700001.

WOOD TREATMENT PLANTS

Ascu Hickson Ltd., 7A, Elgin Rd., Calcutta 700020.

WOOD WORKING MACHINERY

Janata Machine Tools Ltd., Majiwada, Thana 400601.

WOOLLEN TEXTILES

Delhi

Bharat Carpets Ltd., 28-B, Connaught Place, New Delhi 110001.
Premier Woollen Mills, 38, D. L. Ind. Area, Najafgarh Rd., New Delhi 110015.

Gujarat

Digvijaya Woollen Mills Ltd., Aerodrome Rd., Jamnagar 361001.
Dinesh Mills Ltd., P.B. 65, Padra Rd., Vadodara 390001.

Haryana

Shakti Woollen & General Mills, Panipat.

Jammu & Kashmir

Government Spinning Mills, Nowshehra, Srinagar 190001.
Government Woollen Mills, Shirin Baugh, Srinagar 190001.

Karnataka

Binny Ltd., Agraharam Rd., Bangalore 560023.

Maharashtra

Ahmed Woollen Mills, Karim Bldg., 56, Mohamedali Rd., Bombay 400003.
Bombay Woollen Mills Pvt. Ltd., 20, Hamam St. (Ambalal Doshi St.), Bombay 400001.
C. Ramon & Co. Pvt. Ltd., 79, Apollo St., Bombay 400001.
Dani Wooltex Corpn., Ganesh Bhuvan, M. J. Market, Bombay 400002.
Dhruva Woollen Mills Pvt. Ltd., New Sun Mills Comp., Sun Mill Rd., Lower Parel, Bombay 400013.
Gokalchand Rattanchand Woollen Mills Pvt. Ltd., L. B. Shastri Marg, Ghatkopar, Bombay 400086.
Haji Abdul Rehman Haji Sumar & Co., 63, Chakla St., Bombay 400003.
Kay Kay Woollen Mills, M. Sunderji Rd., Nowpada, Thana 400062.
Kishanchand Spinning Mills, 12, Banaji St., Bombay 400001.
Model Woollen Mills, 4-C, Vulcan Insurance Bldg., V. Nariman Rd., Bombay 400020.
Modella Woollens Ltd., 4-C, Vulcan Insurance Bldg., V. Nariman Rd., Bombay 400020.
Nagpal Woollen Mills No. 3, Atlas Mills Comp., Reay Rd., Bombay 400010.
Raymond Woollen Mills Ltd., N. Morarjee Marg, Ballard Estate, Bombay 400038.
Simplex Woollen Mills, Sadhana Rayon House, Dr. D. Naoroji Rd., Bombay 400001.
Wellman (Ind.) Pvt. Ltd., Neville House, Graham Rd., Ballard Estate, Bombay 400038.
Woollen & Textile Ind. Pvt. Ltd., Lake Rd., Bhandup, Bombay 400078.

Punjab

Angora Spinning Mills, Civil Lines, Ludhiana 141001.
Fine Spinners Pvt. Ltd., Kashmir Rd., Amritsar 143001.
G. M. Worsted Spinning Mills, G. Trunk Rd., Chheharta, Amritsar 143001.
Himalaya Woollen Mills, G. Trunk Rd., Chheharta, Amritsar 143001.
International Woollen Mills, 131, Ind. Area 'A', Ludhiana 141001.
Kapur Spinning Mills, G. Trunk Rd., Amritsar 143001.
M. H. Spinners, Kashmir Rd., Amritsar 143001.
Mahavir Woollen Mills, Ind. Area 'A', Ludhiana 141003.
New Egerton Woollen Mills, Dhariwal.
Oriental Carpet Manufrs. (India) Pvt. Ltd., G. Trunk Rd., Amritsar 143001.
Oswal Spg. & Wvg. Mills Ltd., Oswal Rd., Ind. Area 'A', Ludhiana 141001.
Oswal Woollen Mills Ltd., Miller Ganj, Ludhiana 141003.
Punjab Woollens, G. Trunk Rd., Chheharta, Amritsar 143001.
Prabhat Woollen Mills, 238, Ind. Area 'A', Ludhiana 141003.
Padam Das & Co., Ferozepur Rd., Ludhiana 141001.
Raj Woollen Ind., G. Trunk Rd., Panipat.
Supreme Woollen Mills, 242, Ind. Area 'A', Ludhiana 141001.
Swadeshi Manufg. Syndicate Pvt. Ltd., Civil Lines, Syndicate Bldgs., Ludhiana 141001.

Rajasthan

Bikaner Woollen Mills, Ind. Area, Bikaner 334001.
Rajasthan Worsted Spg. Mills Ltd., K-18, Durga Das Path, Malviya Marg, C-Scheme, Jaipur 302001.
Shree Rajasthan Woollen Mills, Gajner Rd., Bikaner 334001.
State Woollen Mills, Bikaner 334001.

Uttar Pradesh

Cawnpore Woollen Mills Ltd., Civil Lines, Kanpur 208001.
General Fibre Dealers Pvt. Ltd., Subedarganj, Allahabad 211001.

West Bengal

Bengal National Textile Mills Ltd., 87, Dharamtalla St., Calcutta 700013.
Bharat Woollen Mills Ltd., 11, Esplanade Estate East, Calcutta 700001.
Jayashree Textiles & Ind. Ltd., Rishra, Hooghly Dist.
Kusum Wool & Woollen, 74, Beleghata Main Rd., Calcutta 700010.
Woolcombers of India Ltd., Duncan House, 31, N. Subash Rd., Calcutta 700001.

XRAY MACHINES

(See under Medical Equipment.)

YARN — NYLON & POLYESTER

(See under Nylon & Polyester Yarn in this list.)

ZINC OXIDE

Pigments and Chemicals Ind. Pvt. Ltd., 32, Armenian St., Calcutta 700001.

ZIP FASTENERS

Apollo Zipper Co. Pvt. Ltd., 20, British Indian St., Calcutta 700001.
Fleet Fasteners Pvt. Ltd., Delstar, Hughes Rd., Bombay 400026.
Madhu Snap Fastners Manufg. Co. Pvt. Ltd., Sanghavi Chambers, 27 Ghogha St., Bombay 400001.
Nylo Plast Ind. Pvt. Ltd., 254, Dr. A. Besant Rd., Bombay 400018.
Zip Ind. Pvt. Ltd., 119, Mint St., Madras 600001.

DEALERS

ABRASIVES, GRINDING WHEELS

Vazirbun Trading, 164A, Broadway, Madras 600001.

ACID RESISTING BRICKS & CEMENTS

A. N. Bhaskar Sons, Ishwar Nagar, New Delhi 110020.
Datson Raviraj & Co. Pvt. Ltd., 43, Tamarind St., Bombay 400001.
S. K. Gupta, Refractory House, L. B. Shastri Marg, Kurla, Bombay 400070.

ACOUSTIC INSULATIONS

Lloyd Insulations (India), 386, V. Savarkar Marg, Bombay 400025.
Newkem Insulations, Hargangamahal, Khodadad Circle, Bombay 400014.
Supersil Industries, 134-A, S. Memon St., Bombay 400002.

ADDRESSING & LISTING MACHINES

National Cash Register Co., Steelcrete House, D Vachha Rd., Backbay Recl., Bombay 400020.

AIRCONDITIONERS, REFRIGERATORS, ETC.

Banthiya & Co. Pvt. Ltd., Station Rd., Ajmer 305001.
Bombay Garage (Ahmedabad) Ltd., Shahibag Rd., Ahmedabad 380001.
Bombay Cycle & Motor Agency Ltd., 534, S. V. Patel Rd., Bombay 400007.
Bombay Engg. & Elec Co., Motia Park, Bhopal 462001.
Dadajee Dhackjee & Co. Pvt. Ltd., Shree Pant Bhuvan, Sandhurst Bridge, Bombay 400007.
Electro Air Conditioning Corpn., opp. I.A.C. Office, 1754 Mirzapur Rd., Ahmedabad 380001.
Faradays, Lentin Chambers, Dalal St., Bombay 400001.
General Radio Appliances, Opera House, Bombay 400001.
J. N. Marshall & Co., Taj Bldg., 210, Dr. D. Naoroji Rd., Bombay 400001.
National Business Corpn., 19, Napean Sea Rd., Bombay 400006.
Pearl Trading Co., A-25, Defence Colony, New Delhi 110024.
Paramount Industrial Stores, 15, Ropewalk St., Bombay 400001.
Rajesh Motors, Gandhi Bagh, Nagpur 440001.
Scient-Air, 33-35, New Queen's Rd., Bombay 400004.

AIR CONDITIONING & REFRIGERATION EQUIPMENT

Gorakhram Haribux, 4, Apeejay House, 130, Bombay Samachar Marg, Bombay 400001.

ALLOY STEEL

(See under 'Tool Alloy, and Special Steel', in this list).

ALUMINIUM & PRODUCTS

Delhi

Mahavir Metal Works Pvt. Ltd., 477, Bartan Market, Sadar Bazar, Delhi 110006.
Prem Metal & Hardware Store, 4835, Sadar Bazar, Delhi 110006.
Tarachand Ram Mohan, 573, Katra Mithan Lal, Sadar Bazar, Delhi 110006.

Gujarat

Gujarat Metal Industries, Harkuwer's Haveli, Patasa Pole, Ahmedabad 380001.

Maharashtra

Ajit Metal Corpn., Kansara Chawl, Kalbadevi Rd., Bombay 400002.
Atul Metal Corpn., 86, Kansara Chawl, Kalbadevi, Bombay 400002.
Jeewanlal 1929 Ltd., 192A, Liberty Bldg., Marine Lines, Bombay 400020.
Kiran Metal Corpn., 207, Kika St., Bombay 400002.
Moolchand & Manmal & Co., 162 Kika St., Bombay 400004.
Sudarshan Chikhani & Co., 138, Kalbadevi Rd., Bombay 400002.

Tamil Nadu

Allied Import Co., 11/3, Singanna Naicken St., Madras 600001.
Motichand Sivaraj, 89, Perumal Mudali St., Madras 600001.

West Bengal

Aluminium Sales & Trading Co., 23A, N. Subash Rd., Calcutta 700001.
Bengal Aluminium Stores Pvt. Ltd., 55/14, Canning St., Calcutta 700001.
Durlabhaji Bhurabhai Metalware Pvt. Ltd., 162, Old China Bazar St., Calcutta 700001.
Hindustan Trading Syndicate, 33, Brabourne Rd., Calcutta 700001.
Indian Aluminium Co. Ltd., 1, Middleton St., Calcutta 700016.
J. Nagardas & Co., 55/3, B. R. B. Basu Rd., Calcutta.
Jugraj Tejraj, 2, Portuguese Church St., Calcutta 700001.
Madhob & Co., 56/1, Canning St., Calcutta 700001.
Rameswarlal Dedraj & Co., 4, Middleton St., Calcutta 700016.
Ratanlal & Bros., 58, N. Subash Rd., Calcutta 700001.

ARMS & AMMUNITION

A. T. Daw & Co., Ranihat, Cuttack 753001.
B. R. Sawhney & Co., Chandni Chowk, Delhi 110006.
Bawa Praduman Singh & Sons, Laxmi Bazar, Cloth Market, Delhi 110006.
Capital Gun House, Delite Bldg., A. Ali Rd., New Delhi 110001.
Delhi Armoury, 12C, Nizamuddin West, New Delhi 110013.
Delhi Gun House, Kashmere Gate, Delhi 110006.
Eastern Arms Co., 88, A. Ali Rd., New Delhi 110011.
Garg Armoury Pvt. Ltd., Kashmere Gate, Delhi 110006.
K. Jugal Kishore & Sons, 3494, Gali Lalla Missar, Qutub Rd., Delhi 110006.
Manton & Co., Ltd., 13, Old Court House St., Calcutta 700001.
Narendra & Co., Hamman Chowk, Dehra Dun 248001.
National Armoury, 14/4-B, N. H. Rd., Coimbatore 641001.
National Stores, 13B, Connaught Place, New Delhi 110001.
Oriental Arms & Ammunition Co., Opp. Fire Brigade, Connaught Circus, New Delhi 110001.
Pandit Narsingh Dass & Sons, Nr. Dariba, Chandni Chowk, Delhi 110006.
R. B. Rodda & Co. Ltd., 4K, Connaught Circus, New Delhi 110001.
S. Harishchand, Munnireddi Palayam, Main Rd., Bangalore 560006.

Shakti Arms Corpn., 3/14A. Ali Rd., New Delhi 110001.
Singh Bros. (1925) Regd., Kashmere Gate, Delhi 110006.
Singh Gun House, 14/3, A. Ali Rd., New Delhi 110001.
Small Arms Co., S. Nand Marg, Outside Ajmere Gate, Delhi 110006.

ARTIST'S AIRBRUSH

Bombay Stationary Mart, 7-A, Sir. P. Mehta Rd., Bombay 400001.
M. Baker & Co., 35, Nagdevi St., Bombay 400003.

AUTOMOBILE SPARE PARTS & ACCESSORIES

Andhra

Bharat Automobiles, Rajagopalachari St., Vijaywada 520001.
Hyderabad Auto Service Ltd., M. Gandhi Rd., Secunderabad.
Mahesh Motors, Feelkhana, Hyderabad 500012.
Prabhat Automobiles, 15-9-622, J. Nehru Rd., Hyderabad 500012.

Assam

Jorhat Motor Car Co. Pvt. Ltd., Cally Bldgs., Jorhat 785001.
Jyoti Motors, Jorhat 785001.
K. K. Das & Sons, Premtala Rd., Silchar 788001.
Saraf Motor Co., Saroj Bldg., Gauhati 781001.

Bihar

Jharia Automobiles, P. Box 9, P.O. Jharia.
K. N. Roy & Sons Pvt. Ltd., Main Rd., Ranchi 834001.
Kamanar & Co. Upper Bazar, Ranchi 834001.

Delhi

Ajanta Automobiles, K. Gate, Delhi 110006.
Aggarwal Motor Co., Gandhi Motor Market, K. Gate, Delhi 110006.
Asian Motors India, Minerva Bldg., K. Gate, Delhi 110006.
Asu Traders Pvt. Ltd., Minerva Bldg., K. Gate, Delhi 110006.
Auto Industries India, Patel Market, K. Gate, Delhi 110006.
Conwest Pvt. Ltd., K. Gate, Delhi 110006.
Gupta Trading Corpn. India Pvt. Ltd., 2705, Lothian Rd., K. Gate, Delhi 110006.
Gurunanak Automobiles, 34 Gokhale Market, Delhi 110006.
Howrah Motors India, Minerva Bldg., K. Gate, Delhi 110006.
Janata Corpn. Ltd., 464/5, Hamilton Rd., K. Gate, Delhi 110006.
Jullundur Motor Agency (Delhi) Pvt. Ltd., K. Gate, Delhi 110006.
Kamal & Co. (Jaipur) Pvt. Ltd., Lothian Rd., Delhi 110006.
Khera Automobiles, Roshanara Rd., Delhi 110006.
P. Sharan & Co., P. Box 1143, Delhi 110006.
Pioneer Automobile Co., K. Gate, Delhi 110006.

Karnataka

Bharat Automobiles, 1/4, Narasimharaja Rd., Bangalore 560003.
Bharat Agencies, 18-A, Ari Jayachamrajendra Rd., Bangalore 560002.
Canara Sales Corpn., Kodiyalbail, Bangalore 560003.

Madhya Pradesh

Dawar Bros., Hamidia Rd., Bhopal 462001.
Globe Automobiles, Hamidia Rd., Bhopal 462001.
Jain Co., Hamidia Rd., Bhopal.

Maharashtra

Allena (India) Agencies, 363-D, S. V. Patel Rd., Bombay 400004.
Asian Motor Car Co., 481, V. Patel Rd., Bombay 400004.
Associated Auto Parts Pvt. Ltd., 445, Dr. Bhadkamkar Marg, Bombay 400004.
Bhagwan Motor Co., Sh. Rukmani Niwas, 62, Jagannath Shankar Sheth Rd., Bombay 400004.
C. Vakil & Co., Pvt. Ltd., 497/3, Roop Raj, S. V. Patel Rd., Bombay 400004.
Central Automobiles Pvt. Ltd., 466, S. V. Patel Rd., Bombay 400004.
Chandulal Mehta & Co. Pvt. Ltd., 9, N. Queens Rd., Bombay 400004.
Conwest Pvt. Ltd., 448, Lamington Rd., Bombay 400004.
George Oaks Ltd., Swadeshi Mills Estate, Mama Paramanand Marg, Bombay 400004.
International Impex Corpn., 16, Kiln Lane, Bombay 400007.
Parshottam Motor Co., 27, Ashar Bldg., Avantikabai Gokhale St., Bombay 400004.
Sethi Auto Spares, 428, Raval Bldg., No. 1, Lamington Rd., Bombay 400007.
Vora Bros., Fateh Manzil, Nr. Opera House, Bombay 400004.

Punjab

Allied Trading Corpn., Nehru Garden Rd., Jullundur City 144001.
British Motor Car Co. Pvt. Ltd., G. T. Rd., Jullundur City 144001.

Ford

GEORGE OAKES LIMITED

Bombay Operations

Swadeshi Mills Estate, Mama Parmanand Marg, Bombay 400 004.
P.O. Box No. 3621, Bombay 400 004.

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Distributors for :

Ford Passenger Cars, Trucks and related spare parts.

All India Distributors for :

IP Hepolite Pistons, Rings and Liners.

Perkins P6(V) Diesel Engines and Conversion Kits for all makes of vehicles and related spare parts.

" Hi-Brite " Auto Lamps (for Western Zone).

" OAKES " Batteries, Brake Fluid, Sealed Beam Lamps, Filter Elements and other Accessories.

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Phones : 352391-4 (4 lines).
Grams : " GEORGOAKES."

Doaba Trading Co., Nehru Garden Rd., Jullundur City 144001.
Gupta Motor Stores, Nehru Garden Rd., Jullundur 144001.
Jullundur Motor Agency, Nehru Garden Rd., Jullundur City 144001.
Kay Dee Mehra & Co., Nehru Garden Rd., Jullundur 144001.
Modern Motor Works, G. T. Rd., Ludhiana 141001.
National Corpn. Pvt. Ltd., Nehru Garden Rd., Jullundur 144001.
Narankari Auto Agency, Outside Gandhi Gate, Amritsar 143001.
Ved & Co., (Ludhiana), Cinema Rd., Ludhiana 141001.

Tamil Nadu

Anand Automobiles, 24, Gen. Patters Rd., Mount Rd., Madras 600002.
Auto Sales Co., 42, Gen. Patters Rd., Madras 600002.
Bharat Motors, 35, Mount Rd., Madras 600002.
Bombay Motor House, 28-A, Gen. Patters Rd., Madras 600002.
Central Motors, 2, State Bank St., Mount Rd., Madras 600002.
City Auto Stores, 41-E, Gen. Patters Rd., Madras 600002.
Coimbatore Automobiles, 139, Dr. Anjappa Rd., Coimbatore 641001.
George Oakes Ltd., 32-A, Greaves Rd., Madras 600006.
Indian Motor Parts & Accessories Ltd., 1/155, Mount Rd., Madras 600002.
Pandyan Automobiles (Pvt.) Ltd., By Pass Rd., Madurai 625016.

Uttar Pradesh

Aggarwal Bros., The Mall, Kanpur 208001.
Byramjee Framjee & Co., The Mall, Kanpur 208001.
Jullundur Auto Sales Corpn. Pvt. Ltd., M. Gandhi Rd., Kanpur.
Kanpur Auto Centre, The Mall, Kanpur 208001.
M. Narain & Co., 62, N. Subash Marg, Allahabad 211001.
Prabhat Motor Co., The Mall, Kanpur 208001.

West Bengal

Anglo American Autos Pvt. Ltd., 23, G. Chandra Ave., Calcutta 700013.
Auto India International, 4, Sooterkin St., Calcutta 700013.
Auto Parts Co., 35, Metcalfe Lane, Calcutta 700013.
Bengal Auto Distributors, 25-8, Park St., Calcutta 700016.
Bharat Motors, P-24, Mission Row Ext., Calcutta 700013.
East India Automobiles, P-24, Mission Row Ext., Calcutta 700013.
Howrah, Motor Accessories Agency Pvt. Ltd., 3/1, Mangoe Lane, Calcutta 700001.
Makin Bros., 15-A, Mukherjee Rd., Calcutta 700020.
Metal Specialities Pvt. Ltd., 6/1, Saklat Place, Calcutta 700013.
National Automobiles, 20, British India St., Calcutta 700001.
Oriental Motor Accessories Agency Pvt. Ltd., 28 Chitt. Ave., Calcutta 700013.
S. P. Singh & Co., 62 G. Chandra Ave., Calcutta 700013.

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Dinesh & Co., 84, Bhuleshwar Rd., Bombay 400002.
Excel Process Pvt. Ltd., 22D, Parsi Bazar St., Bombay 400001.
S. C. Roy, 89/2A, Masjid Bari St., Calcutta 700006.

BALL, ROLLER BEARINGS

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Indian Enterprises Corpn., 10, Canning St., Calcutta 700001.
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Podar Traders, Botawala Bldg., 11/13, Horniman Circle, Bombay 400001.

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Lala Gopikrishna Gokuldas, 11, Western India House, Sir P. Mehta Rd., Bombay 400001.
Muller & Phipps (India) Pvt. Ltd., Queen's Mansion, Bastion Rd., Bombay 400001.

BOLTS, NUTS & RIVETS

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National Tool Syndicate, 77/83, Nagdevi St., J. K. Chambers, Bombay 400003.

BONE MEAL

Sagar Enterprises, Prabha Picture House, Mysore 570001.

BOOKSELLERS & PUBLISHERS

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Navodaya Publishers, Eluru Rd., Vijayawada 520002.
Pothukuchi Agencies & Publicities, 208, New Bhoiguda, Secunderabad 500003.
Srimukha Publications, 18/2, R. T., Chandulal Baradari, Hyderabad 500002.
Vidyarthi Publishers, 2, Lalbahadur Shastri Stadium, Hyderabad 500001.

Assam

Lawyer's Book Stall, Pan Bazar, Gauhati 781001.

Delhi

Affiliated East West Press Pvt. Ltd., 9, Nizamuddin East, New Delhi 110013.
Allied Publishers, 13/14, Asaf Ali Rd., New Delhi 110001
Arnold-Heinemann India Ltd., AB/9, Safdarjang Enclave, New Delhi 110016.
Asia Publishing House, Indira Palace, Connaught Circus, New Delhi 110001.
Associated Publishing House, New Market, Karol Bagh New Delhi 110005.
Atma Ram & Sons, Kashmere Gate, Delhi 110006.
Bansal & Co., K-16, Navin Shahadra, Delhi 110032.

Bharatiya Jnanpith, 3620/21, N. Subash Marg, Delhi 110006.
B. I. Publications, 54, Janpath, New Delhi 110001.
Central News Agency, 23/90, Connaught Circus, New Delhi 110001.
D. K. Agencies, 461, Vivekanand Nagar, Delhi 110007.
The English Book Store, 17L, Connaught Circus, New New Delhi 110001.
Frank Bros. Pvt. Ltd., IV/85, Chandni Chowk, Delhi 110006.
Hemkunt Press (Publishers), 1-E/15, Patel Rd., New Delhi 110008.
Hind Pocket Books Pvt. Ltd., 36C, Atma Ram House, Connaught Place, New Delhi 110001.
Hindustan Publishing Corpn. (India), 6/U.B.. Jawahar Nagar, Delhi 110007.
Impex India, 2/18, Ansari Rd., Daryaganj, Delhi 110006.
Indian Book Ind., AB/9, Safdarjang Enclave, New Delhi 110016.
Jain Book Agency, C-9, Connaught Place, New Delhi 110001.
Keyankay Agencies, 57, Daryaganj, Delhi 110006.
Macmillan Co. of India Ltd., 2/10, 4252, Ansari Rd., Darya Ganj, Delhi 110006.
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National Council of Applied Economic Research, Parisila Bhawan, Indraprastha Estate, New Delhi 110001.
National Publishing House, 23, Darya Ganj, Delhi 110006.
Nav Yug Press, Pleasure Garden Market, Chandni Chowk, Delhi 110006.
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UBS Publishers' Distributors Pvt. Ltd., 5, Ansari Rd., Delhi 110006.
Universal Book Stall, 5, Ansari Rd., Daryaganj, Delhi 110006.
Vikas Publishing House Pvt. Ltd., 5, Daryaganj, Ansari Rd., Delhi 110006.
Wiley Eastern Pvt. Ltd., J/41, South Ext., Pt. I, New Delhi 110003.

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Vicharasahitya (P) Ltd., Balepet, Bangalore 560002.

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Touring Book Stall, Court Rd., Calicut 673001.

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Bharatiya Vidya Bhavan, Chowpatty, Bombay 400007.
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Kothari Book Depot, A. Donde Marg, Parel, Bombay 400012.

Lalvani Brothers, 210, Dr. D. Naoroji Rd., Bombay 400001.

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N. M. Tripathi Pvt. Ltd., 164, Princess St., Bombay 400002.

Orient Longman Ltd., Indian Mercantile Chambers, Nicol Rd., Ballard Estate, Bombay 400038.

Oxford University Press, Oxford House, Apollo Bunder, Bombay 400001.

Pocket Books Distributing Co., 11, Oak Lane, Bombay 400001.

Popular Book Depot, Dr. Bhadkamkar Rd., Bombay 400007.

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Progressive Corpn. Pvt. Ltd., Jehangir Wadia Bldg., 51, M. Gandhi Rd., Bombay 400001.

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Oxford University Press, Post Bag No. 466, Madras 600006.

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Theosophical Publishing House, Adyar, Madras 600020.

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Upper India Publishing Houses Pvt. Ltd., Aminabad, Lucknow 226001.

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World Press Pvt. Ltd., 37, College St., Calcutta 700012.

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Apsara Boutique, Rustom Bldg., N. Sardunji Rd., Off Colaba Causeway, Bombay 400005.

Apsara International, Near Transport House, Colaba, Bombay 400001.

Artistic, National House, Tulloch Rd., Bombay 400001.

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Caralisa, Nova House, M. Karve Rd., Bombay 400002.

Dagina, Bombay Swadeshi Stores, Sir P. Mehta Rd., Bombay 400001.

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Mona Lisa, Sangam Bhavan, Opp. Strand Cinema, Colaba, Bombay 400005.
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Relik, Esplanade Mansion, Fuller Rd., Off M. Gandhi Rd., Bombay 400001.
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Rukmani, India House, Kemp's Corner, Bombay 400026.
Sriman (Men's), Dhanraj Mahal, Shivaji Marg, Bombay 400001.
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Vama, S. Patkar Rd., Bombay 400007.

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The Mirror, Hotel Ashoka, Kumara Krupa, High Grand, Bangalore 560001.
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Constantine, Great Eastern Hotel, Old Court House St., Calcutta 700001.
His or Hers, Park Hotel, Park St., Calcutta 700016.
Ritu's Boutique, 46, Wellesley Rd., Calcutta.
Treasures of India, 43, Park Mansion, Park St., Calcutta 700016.

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Jaggi's Shop, 16A-17, Ajmal Khan Rd., New Delhi 110005.
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Ritu's Boutique, D3, Defence Colony, New Delhi 110024.
Sabina Casuals, Hotel Oberoi Intercontinental, Dr. Z. Hussain Marg, New Delhi 110003.
Sofistication, D-9, Defence Colony, New Delhi 110024.
Sona, Akbar Hotel, Chanakyapuri, New Delhi 110021.
Sri Boutique, Ambassador Hotel, Sujan Singh Park, New Delhi 110003.
Teji's Boutique, D Block, Defence Colony, New Delhi 110024.

Hyderabad-Secunderabad

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Bayer (India) Ltd., Express Towers, N. Point, Bombay 400021.

Enar Chemie Pvt. Ltd., 31, Duncan Causeway, Bombay 400022.

G. V. Agency, 73, Podar Chambers, 109, P. Bazar St., Bombay 400001.

Industrial Suppliers, Buona Casa, Sir P. Mehta Rd., Bombay 400001.

Jayant Dye-Chem Corpn., 8, S. Devji St., Bombay 400003.

Jyoti Trading Co., Barar House, 293/243, A. Rehman St., Bombay 400003.

Nav Bharat Minerals & Chemicals, 8, Haresh Chambers, 313-319, Samuel St., Bombay 400003.

Techno-Industrial Syndicate, 19-B, Noble Chambers, Parsee Bazar St., Bombay 400001.

West Bengal

Capco Pvt. Ltd., 14, N. Subhash Rd., Calcutta 700001.

CHEMICALS, RUBBER

Organo Chemical Industries, H–2/6, Model Town, Delhi 110009.

Jitindrakumar & Co., 179, Samuel St., Bombay 400009.

CINEMA EQUIPMENT

Cine Enterprise, 11, Kiln Lane, Lamington Rd., Bombay 400007.

Cinefones, 3, M. Parmanand Marg, Opp. Opera House Cinema, Bombay 400004.

Cinerama Pvt. Ltd., Metro House, M. Gandhi Rd., Bombay 400020.

Cinesales Corpn., 11, Court Rd., Civil Lines, Delhi 110006.

Continental Photo Stores, 243-45, Dr. D. Naoroji Rd., Bombay 400001.

International Talkie Equipment Co. Pvt. Ltd., 4, Tata Rd. No. 1, Bombay 400004.

National Cine Supply, 16 Tribhuvan Rd., Bombay 400004.

Photophone Ltd., 7, Saki Vihar Rd., Bombay 400072.

Xaca (India) Pvt. Ltd., Radio Market, Ch. Chowk, Delhi 110006.

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CROCKERY & POTTERIES

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CRUCIBLES

Bombay Tools & Hardware Mart., 123, Narayan Dhuru St., Bombay 400003.

K. B. Gandhi & Co., 277, Sardar Vallabhbhai Patel Rd., Bombay 400004.

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Parco, 16/B, Connaught Place, N. Delhi 110001.

Karnataka

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Maharashtra

Applied Electronics Pvt. Ltd., Wagle Estate, Thana 400604.
Asian Electric Services, 84, Imamwada Rd., Bombay 400009.
Associated Trdg. Corpn., Western India House, Sir P. Mehta Rd., Bombay 400001.
Bombay Electronics Co. Pvt. Ltd., 381, Dr. D. Naoroji Rd., Bombay 400001.
Cine Enterprise, 11, Kiln Lane, Lamington Rd., Bombay 400007.
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Dominion Radios, 15, New Queen's Rd., Opera House, Bombay 400004.
Electronic Radio & Sound Corpn., 394-B, Lamington Rd., Bombay 400004.
Hindustan Instruments, 89, S. Gandhi Marg, Bombay 400002.
Industrial Electronics, 306, B. Byculla Service Ind., Sussex Cr. Rd., Byculla, Bombay 400027.
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Navbharat Radio Agencies, 350 (BD) Lamington Rd., Bombay 400007.

Polytronic Corpn., Sainath Ind. Estate, Kotkar Rd., Goregaon East, Bombay 400063.

Power Cables (Pvt.) Ltd., 24, Brelvi S. Abdulla Rd., Bombay 400001.

Sas Elektrolinks, 105, Hind Rajasthan Bldg., D. Phalke Rd., Bombay 400014.

Toshniwal Bros. Pvt. Ltd., 198, Jamshedji Tata Rd., Bombay 400020.

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West Bengal

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Parikh Electric Corpn., 36, Ezra St., Calcutta 700001.

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Indian Trading Co., 41 Sitaram Podar St., Thakurdwar St., Bombay 400002.

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Bharat Engg. Stores, 31, Nagdevi Cross Lane, 113, Nagdevi St., Bombay 400003.

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Usha International, 4-E, Rani Jhansi Rd., New Delhi 110055.

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Konkan Fisheries Pvt. Ltd., Mormugao Harbour 403601.
Sesa Goa Pvt. Ltd., Box No. 125, Altinho, Panaji 403001.

Gujarat

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Gujarat Steel Tubes Ltd., Bank of India Bldg., Bhadra, Ahmedabad 380001.
Ilac Ltd., New Cloth Market, Outside Raipur Gate, Ahmedabad 380002.
Lalbhai Exports Ltd., Arvind Mills Premises, Naroda Rd., Ahmedabad 380002.

Karnataka

Karnatak Exports Ltd., 112, Rajamahal Vilas Extn., P.B. 608, Bangalore 560006.
Kirloskar Electric Co. Ltd., Rajajinagar, Bangalore 560010.
NGEF Ltd., George Oakes Bldg., Narasimharaja Sq., 794, Bangalore 560002.
Raja Silk House Pvt. Ltd., Basavraja Market, P.B. 6709, Bangalore 560002.

Kerala

Kerala Balers Ltd., TAC House, Nr. Savakkotta Bridge, Alleppey 688001.
Kerala Fisheries Corpn., XVI/848-B, Shanmugham Rd., Ernakulam, Cochin 682011.

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Hoechst Dyes & Chemicals Ltd., Dugal House, Backbay Recl., Bombay 400020.
Indexport Ltd., 165-166, Backbay Recl., Bombay 400020.
Kamani Engg. Corpn. Ltd., Kamani Chambers, Nicol Rd., Ballard Estate, Bombay 400038.
Kidarnath Kishanchand Pvt. Ltd., Navasari Chambers, Outram Rd., Bombay 400001.
Kirloskar Oil Engines Ltd., 13, Elphinstone Rd., Kirkee, Pune 411003.
Krishna Steel Ind. Pvt. Ltd., 29-30, Vaswani Mansions, 120, D. Vachha Rd., Bombay 400020.
Larsen & Toubro Ltd., L & T House, Ballard Estate, Bombay 400038.
Maharashtra Small Scale Ind. Devpt. Corpn. Ltd., Kripanidhi, W. Hirachand Marg, Bombay 400038.
Mahindra & Mahindra Ltd., Gateway Bldg., Apollo Bunder, Bombay 400001.
Metro Exporters Pvt. Ltd., Shah House, Shivsagar Est., Dr. A. Besant Rd., Bombay 400018.
Milton's Pvt. Ltd., Milton's House, P.O. Prabhadevi, Bombay 400025.
Nowrosjee Wadia & Sons Pvt. Ltd., Neville House, Ballard Estate, Bombay 400038.
Rallis India Ltd., 21, Raveline St., Bombay 400001.
Raymond Woollen Mills Ltd., P.O. Jekegram, Thana 400606.
Sarabhai International, Shahibagh House, 13, Wittet Rd., Ballard Estate, Bombay 400038.
Sepulchre Bros. (India) Ltd., Taj Bldg., 210, Dr. D. Naoroji Rd., Bombay 400001.
Siemens India Ltd., 134-A, Dr. A. Besant Rd., Worli, Bombay 400018.
Simac Group India Pvt. Ltd., 5/7, Sidhpura Ind. Estate S. Vivekananda Rd., Goregaon (West), Bombay 400062.

Swastik Rubber Prod. Ltd., Swastik House, Behind Kirkee Rly. Stn., Pune 411003.
Tata Exports Ltd., Block 'A', Shivsagar Estate, Dr. A. Besant Rd., Bombay 400018.
Ulhas Oil and Chemical Ind. (Pvt.) Ltd., 16, Apollo St., Bombay 400001.

Tamil Nadu

Best & Co. Pvt. Ltd., 13/15, North Beach Rd., Madras 600001.
Binny Ltd., 7, Armenian St., Madras 600001.
Easun Engg. Co. Ltd., 5-7, Second Line Beach, Madras 600001.
India Leather Corpn. Pvt. Ltd., India Leather Mansions, 9, Davidson St., Madras 600001.
Madras Rubber Factory Ltd., Dhun Bldg., 175/1, Mount Rd., Madras 600002.
V. D. Swami & Co. Pvt. Ltd., Sire Mansion, 123, Mount Rd., Madras 600006.

West Bengal

Bharat Exports Ltd., 9-B, Chowringhee Place, Calcutta 700013.
Brooke Bond India Ltd., Brooke House, 9, Shakespeare Sarani, Calcutta 700016.
Burn & Co. Ltd., Martin Burn House, 12, Mission Row, Calcutta 700001.
Calcutta Steel Co. Ltd., Steel House, 4, Old Court House St., Calcutta 700001.
Continental Export & Import Co., Garodia Market, 49, Cotton St., Calcutta 700001.
Duncan Bros. & Co. Ltd., Duncan House, 31, N. Subash Rd., Calcutta 700001.
Dunlop Rubber Co. of India Ltd., 57-B, M. Ghalib St., Calcutta 700016.
Fulchand Kanahiya Lal & Co. Pvt. Ltd., 12, India Exchange Place, Calcutta 700001.
G. A. Randeria Pvt. Ltd., Commerce House, 2, G. Chandra Avenue, Calcutta 700013.
G. Atherton & Co. Pvt. Ltd., 21, R. N. Mukerjee Rd., Calcutta 700001.
Imkemex India Ltd., 34, Chowringhee Rd., Calcutta 700016.
India Linoleums Ltd., P.O. Birlapur, 24, Parganas.
Juggilal Kamlapat Udyog Ltd., 7, Council House, Calcutta 700001.
Kesoram Spun Pipes & Foundries, P-869, Lake Town, Calcutta 700055.
M. Ramnarain Pvt. Ltd., 11, Government Place East, Calcutta 700001.
Metal Scrap Trade Corpn. Ltd., P-34, India Exchange, Calcutta 700001.
R. S. Iron Ind. Pvt. Ltd., 56-D, Free School Street, Calcutta 700016.
Sen & Pandit Pvt. Ltd., Mercantile Bldg., Lallbazar St., Calcutta 700001.
Shaw Wallace & Co. Ltd., 4, Bankshall St., Calcutta 700001.
Shree Krishna Pvt. Ltd., 20, Mangoe Lane, Calcutta 700001.
Steel Rolling Mills of Bengal Ltd., 28, Strand Rd., Calcutta 700001.
Union Carbide India Ltd., 1, Middleton St., Calcutta 700016.
Usha Martine Black (Wire Ropes) Ltd., 14, Princep St., Calcutta 700013.

FARM EQUIPMENT

Agro-Chemicals and Fertilisers, Valliampalyam, Via Coimbatore.
Asian Steel Co., 49 Fancy Chamber, 94 Surat St., Bombay 400009.
Cirugia De Lux Pvt. Ltd., J. Nehru Rd., Calcutta 700013.

FILTERS

Blackstone Supply Agency, 23-A, Netaji Subhash Rd., Calcutta 700001.

FIRE FIGHTING EQUIPMENT

(See under Manufacturers list).

FISHING AIDS

East India Trdg. Co., 2, Church Lane, Calcutta 700001.
Gladstone Lyall & Co. Ltd., 4, Fairlie Place, Calcutta 700001.

FOUNDRY MATERIALS

Blackstone Supply Agency, 2, Tagore Castle St., Calcutta 700006.
Richardson and Cruddas (1972) Ltd., Byculla Iron Works, Bombay 400008.

HANDICRAFTS EXPORTERS

Delhi

Asian Antiques Arts & Handicrafts, N-258, Greater Kailash-1, New Delhi 110014.
Beharilal Benipershad Exports & Imports Pvt. Ltd., Mahalaxmi Market, Chandni Chowk, Delhi 110006.
Central Traders, 51/3, New Market, New Rohtak Rd., New Delhi 110005.
Continental Exports, 18/4, A. Ali Rd., New Delhi 110001.
Datta Cottage Industries of India, F-23, D. B. Gupta Market, Karol Bagh, New Delhi 110005.
Dewa Singh Sarna, 312, Panja Sharif, Kashmere Gate, Delhi 110006.
Dhananjai Pvt. Ltd., 12, Park Area, Karol Bagh, New Delhi 110005.
Eastern Arts Corpn., 11/B-4, A. Ali Rd., New Delhi 110001.
Eastern Linkers Pvt. Ltd., Central Arts — Block A, Connaught Place, New Delhi 110001.
Export India Corpn., B1/30A, Hauz Khas, Main Mehrauli Rd., New Delhi 110016.
General Sales & Exports, 148, Jorbagh, New Delhi 110003.
Hansa Agencies, 4B/3, Ganga Ram Hospital Marg, New Delhi 110060.
Hira Lal & Son, 20, East Park Area, Karol Bagh, New Delhi 110005.
Indian Arts & Crafts Syndicate, 2666, Ballimaran, Delhi 110006.
India-West Co., Flat No. 30 Riviera Bldg., 45, The Mall, Delhi 110007.
Indo Craft Exports, 23, Darya Ganj, Delhi 110006.
Ivory Mart, 22-F, Connaught Place, New Delhi 110001.
Ivory Place, Jama Masjid, Delhi 110006.
J. R. Sharma & Co. Pvt. Ltd., 3622, N. Subash Marg, Delhi 110006.
K. L. Bhatia, 2217, Chuna Mandi, Paharganj, New Delhi 110001.
K. S. Sarna, B/66, New Rajinder Nagar, New Delhi 110005.
Lall's Copper & Brass Palance, 1009, Chawri Bazar, Delhi 110006.

Mullick Brothers, 26-A, Ring Rd., Lajpat Nagar IV, New Delhi 110024.

Narain Das Ratanlal (Exports), Chawri Bazar, Delhi 110006.

Nath Bros., 50/2-3, Hanuman Rd., New Delhi 110001.

Nava Bharat Enterprises Pvt. Ltd., B-5/23, Safdarjang Enclave, New Delhi 110016.

Nirula's Copper Bazar, 7, Sundernagar Market, New Delhi.

Nisha Antiques Arts & Handicrafts Emporium, 514, Gali Shivajee, Gandhi Nagar, Delhi 110031.

Oriental Syndicate, 1742/1, Noor Ganj, Pul Bungus, Delhi 110006.

Oriental Trading Society, 1/11B, A. Ali Rd., New Delhi 110001.

Paramount Traders, 4/47, W.E.A., Karol Bagh, New Delhi 110005.

Pickwick Exports Pvt. Ltd., 6/28, W.E.A., Karol Bagh, New Delhi 110005.

P & S (I.) Corpn., 802, Akash Deep Bldg., 26-A, Barakhamba Rd., New Delhi.

R. D. Ramnath Co., Jama Masjid, Delhi 110006.

Roop Narain Inder Narain, 2771, Churiwalan, Delhi 110006.

Reliance International Corpn., 4/2-B, Jawala Mansion, A. Ali Rd., New Delhi 110001.

R. L. Khanna & Co. (Delhi), Khanna House, 15, Jangpura Ext., New Delhi 110014.

R. Nath Kakar & Co., 69-G, Nizamudin West, New Delhi.

Sarna Bros., 5/B-4, Poorvi Marg, New Delhi.

S. Nath Kakar & Son, 41, Hanuman Rd., New Delhi 110001.

Seven Seas Exporters, 131, Sadar Bazar, Delhi 110006.

Surya Trading Corpn., of India Pvt. Ltd., 6-B/8, Northern Ext. Area, New Delhi 110005.

United Overseas Trading Corpn., 4/5-B, Asaf Ali Rd., New Delhi 110001.

Wellworth Trading Corpn., 82, Joshi Rd., Karol Bagh, New Delhi 110005.

Yadav & Co., 2886, Tentwali Gali, Darya Ganj, Delhi 110006.

Jammu & Kashmir

Ahmed Joo, Boulevard Rd., Srinagar 190001.

Maharashtra

Alfani Corpn., 1, Nagdevi St., Bombay 400006.

Bharat Industries Corpn., Near Rex Cinema, Opp. Red Gate, Fort St., Bombay 400001.

Narang Overseas Pvt. Ltd., Beach View Bldg., 93, Warden Rd., Bombay 400026.

Seema Co., Cama Bldg., 24/26, Dalal St., Bombay 400001.

Rajasthan

Curious House, Udaipur 313007.

Gobind Ram Ram Chand, Ajmer Rd., Jaipur 302001.

Thahrya Mal Bal Chand, Mirza Ismail Rd., Jaipur 302001.

Uttar Pradesh

Abdul Majid & Bros., Banjaran St., Saharanpur 247001.

Bhookan Saran & Sons, Bhatti St., Moradabad 244001.

B. Karamchand Payarelal, P. B. 61, Railway Rd., Moradabad 244001.

H. Abdul Qayyum & Bros., Bara Shah Safa, P.B. 49, Moradabad 244001.

Haji Mohd. Jan Mohd. Daood, Bhatti St., Moradabad 244001.

Haji Kallan & Bros., Jama Masjid, Moradabad 244001.

H. H. Rehman & Brother, Thatera St., Moradabad 244001.

H. M. Zakaria M. Yahya, Bhatti St., P.B. 10, Moradabad 244001.

Indiacraft Emporium, P.B. 128, Dehra Dun 248001.

Jamnadas Ramkissendas & Co., 37, Govindji Naik, Varanasi 221001.

Jandaood & Co., Bhatti St., Moradabad 244001.

Marble Emporium, 18/1, Gwalior Rd., Agra Cantt. 282001.

Mohammed Yar Khan, P.B. 43, Moradabad 244001.

Moradabad General Art Metal Mills, P.B. 84, Moradabad 244001.

Mysore Electroplating Pvt. Ltd., P.B. 86, Moradabad 244001.

National Import & Export Co., Bombay Bazar, P.B. 28, Meerut 250001.

Nayar & Sons, P.B. 103, Deputy Ganj, Moradabad 244001.

Oriental Arts Enterprises, 2/115, Nehru Rd., Farrukhabad.

Radhey Mohan Narain Lakshman Baboo, Sadhwara St., Farrukhabad.

Rajeshwar Saran Bagheshwar Saran, Mandi Chowk, Moradabad 244001.

Saxan Traders, Narendra Bldg., Sagar Sarai, P.B. 64, Moradabad 244001.

Stalwart Electroplating Works, P.B. 98, Idgah Rd., Moradabad 244001.

Tableware Craft Cottage, Station Rd., Moradabad 244001.

Talwar & Khullur, P.B. 123, Raza Ali Rd., Civil Lines, Moradabad 244001.

Wajidson Pvt. Ltd., Qasre-Wajid, P.B. 79, Moradabad 244001.

Yatindra & Co., Kirana Bazar, Farrukhabad.

HARDWARE TOOLS & MACHINERY

Andhra State

Bandlapalli Lakshminarayana Setty Sons, Dharmavaram 515671.

D. Guruswami Chetty & Co., Santhapet, Nellore 524001.

Donty Govindiah Suryanaraniah & Bros., Hindupur 515201.

Thatha China Venkata Subbiah Sresty Sons, Ongole 523001.

Delhi

Delhi Hardware & Metal Stores, 822, Nai Sarak, Delhi 110006.

Delhi Hardware Store, 1917, Sirkiwalan, Delhi 110006.

Hardware Co. Ltd., 3620, Chawri Bazar, Delhi 110006.

Hardware Traders, 18, Manohar Market, Hauz Qazi, Delhi 110006.

Milhard & Co., Hauz Kazi, Delhi 110006.

Vinod Metal Industries, 29, Chawri Bazar, Delhi 110006.

Karnataka

Abdur Rahim Md. Yakub, Raichur 584101.

Balakrishnappa Bondade, Davangere 577001.

K. S. Subbarayappa, Chintamani.

Mahboobali Md. Yakub & Sons, Gulbarga 585101.

Kerala

Chakiat Bros., Ernakulam 682001.

General Hardware Stores, Mullakkal, Alleppey 688001.

P. S. Mustafa Rawther, Changanacherry 686101.

Maharashtra

Abdullabhai Faizullabhai Pvt. Ltd., 60-62, Sarang St., Bombay 400003.

B. M. Abdeally & Co., 127, Sarang St., Bombay 400003.

Bharat Engg. Stores, 31, Nagdevi Cross Lane, Bombay 400003.

Bombay Hardware Co., 91, Kika St., Bombay 400004.

Bombay Hardware Traders, 79, N. Dhuru St., Bombay 400003.

Commercial Supplying Agency, 211, Nagdevi St., Bombay 400003.

Dawoodi Hardware Mart, 84, Bhajipala St., Bombay 400003.

Hardware & Mill Stores, 172, Nagdevi St., Bombay 400003.

Hardware Trading Syndicate, 51, Bibijan St., Bombay 400003.

Mutual Traders, 155, N. Dhuru St., Bombay 400003.

Sanghvi Trading Co., 129, Mody St., Bombay 400001.

Visharia Tools & Hardware Mart, 218-232, Masjid Bunder Rd., Bombay 400003.

Tamil Nadu

A. M. Hassanally Co., 34 Linghi Chetty St., Madras 600001.

Bhagat & Co., S. A., 26, P. Maistry St., Madras 600001.

Bombay Trading Agency, 22, E. Chetty St., Madras 600001.

Gulamali Abdul Hussein & Co., 28-29, L. Chetty St., Madras 600001.

Lehri Bros., 17 Sembudoss St., Madras 600001.

Mehta Doshi & Co., 334, T. Chetty St., Madras 600001.

T. S. Fida Ali & Co., 343/344, R. Chetty St., Madras 600003.

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Calcutta Hardware Store, 110/1, Amherst St., Calcutta 700009.

Dominion Hardware Stores, 40, Strand Rd., Calcutta 700001.

Fairdeal Agency, 52, N. Subash Rd., Calcutta 700001.

Hardware Mart, 159, N. Subash Rd., Calcutta 700001.

Hardware Syndicate Pvt. Ltd., 113B, Manohardas Chowk, Calcutta 700007.

Jainsons & Co., 56/1, Canning St., Calcutta 700001.

Varieties Hardware Stores, 71/A, N. Subash Rd., Calcutta 700001.

HIDES & SKINS

Abdus Samad & Co., 7/2 Gas St., Calcutta 700009.

Bengal Hide Co., 11/2, Harsi St., Calcutta 700009.

Globe Hide Skin Co., 11/1, Harsi St., Calcutta 700009.

Hide Trading Corpn., 11/2, Harsi St., Calcutta 700009.

Hooghly Hide & Skin Co., 9, M. S. Rd., Calcutta 700009.

M. Abdul Jabbar & Co., 1, K. B. Cross Lane, Calcutta 700011.

Model Hide & Skin Dealers, 11/1, Harsi St., Calcutta 700009.

Murshidabad Hide Skin Co., 11/2, Harsi St., Calcutta 700009.

Muzaffarpur Hide & Skin Traders, 63, Narkeldanga North Rd., Calcutta 700011.

National Hide & Co., 11/2, Harsi St., Calcutta 700009.

New Calcutta Hide Agency, 7-A, Gas St., Calcutta 700009.

Serajuddin & Co., 11/1, Harsi St., Calcutta 700009.

Sun Hide Co., 11/2, Harsi St., Calcutta 700009.

HOSPITAL EQUIPMENT

Sahnisons Pvt. Ltd., 4/14A, Asaf Ali Rd., New Delhi 110001.

Toshniwal Bros. Pvt. Ltd., 198, J. Tata Rd., Bombay 400020.

HUMAN HAIR

A. R. Siddiqui, Chunawala Colony, Near Irla Bridge, Andheri, Bombay 400058.

Indian Traders Corpn., Janmabhoomi Chambers, Ground Floor, Fort St., Bombay 400001.

K. Saradchandra & Co., Botawala Bldg., 8, Horniman Circle, Fort, Bombay 400001.

Nandlal Madanlal, Mohamed Bldg., 106, Tantanpura St., Dongri, Bombay 400009.

Noordin Ebrahim & Co., 119, Bazargate St., Bombay 400001.

W. H. Deeth Pvt. Ltd., 132, Dr. Annie Besant Rd., Worli, Bombay 400018.

HYDRAULIC EQUIPMENT

C. Bole & Co., 61 N. Dhuru St., Bombay 400003.

Gird and Gard Pvt. Ltd., 11 Rock House, Worli, Bombay 400018.

Mehta Doshi & Co., 344, N. Chetty St., Madras 600001.

Pressweld Engrs., 20 L. Tilak Rd., Bombay 400003.

Shantilal C. Mehta, 45, K. Munshi Marg, Sagar Vihar, Chowpatty, Bombay 400007.

Toshniwal Bros. Pvt. Ltd., 198 J. Tata Rd., Bombay 400020.

IMPORTED GOODS

East European Scientific Instruments

ESPI Trading Co., Neelkanth, 98, N. Subash Rd., Bombay 400002.

G. D. R. Instruments

Bombay Tools Supplying Agency, T. G. Shah Bldg., Pydhonie, Bombay 400003.

C. Z. Instruments India (Pvt.) Ltd., Court Chambers, 35A, New Marine Lines, Bombay 400020.

Imported Chemicals

Amrutlal Bhurabhai & Co., Anand Bhuvan, S. Gandhi Marg, Bombay 400002.

Japanese Textile Machinery

Mitsui & Co. Ltd., Manek Mahal, V. Nariman Rd., Churchgate Recl., Bombay 400020.

Russian Machinery

Pradman Engg. Agencies (Pvt.) Ltd., India House, Opp. G.P.O., Bombay 400001.

U.S. & West German Yarns & Chemicals

Indmag Pvt. Ltd., Corinthian, 17, Off Arthur Bunder Rd., Bombay 400005.

INDUSTRIAL OILS

Indian Lubricants, C. Bhimji Rd., Near Mazgaon P.O., Bombay 400010.

INSULATION MATERIALS

Chimanlal Shah & Co., 3-D, Mangal Das Market, Mangaldas Rd., Bombay 400002.

Insulation House, Kitab Mahal, Dr. D. Naoroji Rd., Bombay 400001.

IRON & STEEL

Unique Steel Sales, 32, Steelyard House, Sant Tukaram Rd., Iron Market, Bombay 400009.

JEWELLERY, GOLD & SILVER SMITHS

Bapalal & Co., Rathor Bazaar, Madras 600003.

Chunilal & Co., 17, Dhanji St., Bombay 400003.

Girdharilal & Sons., Con. Circus, N. Delhi 110001.

Hajare & Bros., Y. A., 1st Pinjarapole Lane, Bombay 400004.

Jhaveri Bros. & Co., Pvt. Ltd., 345, A. Rehman St., Bombay 400003.

Roopchand Jewellers, Sandhurst Bridge, Bombay 400004.

Tribhovandas B. Zaveri, Zaveri Bazar, Bombay 400002.

LABORATORY CHEMICALS

Amrutlal Bhurabhai & Co., Anand Bhuvan, Princess St., Bombay 400002.

B. Babulal & Co., 71, Princess St., Bombay 400002.

National Chemical Corpn., 9, Dev Mansion, S. Gandhi Marg, Bombay 400002.

Prakash Chemicals Ind., 31, Duncan Causway, Bombay 400022.

Pravin Brothers & Co., 501, Commerce House, Medows St., Bombay 400001.

S. D's Lab. Chem. Ind., 116–B, Govt. Ind. Est., Kandivli, Bombay 400067.

S. Mathuradas & Co., P.O. Box No. 2113, Princess St., Bombay 400002.

Vora Brothers., 214–B, S. Gandhi Marg, Bombay 400002.

LABORATORY EQUIPMENT

Delhi

Laboratory Stores, 8647, Arakshan Rd., Delhi 110055.

Gujarat

Mehta & Co., 301/A, Behind Town Hall, Ellis Bridge, Ahmedabad 380006.

Karnataka

Laboratory Supplies Co., Krishna Bldgs., Ave. Rd., Bangalore 560002.

Maharashtra

Aristo Enterprise, 71, 10th Khetwadi, Bombay 400004.

Tamil Nadu

Laboratory Equipment Supplies Co., 26, K. B. Desai Rd., Madras 600018.

Uttar Pradesh

Superior Scientific Stores, 109/211, Jawaharnagar, Kanpur 208012.

West Bengal

Laboratory Equipments, 294/2/1, U. C. Rd., Calcutta 700009.

Laboratory Stores, Taher Mansions, 8, Bentinck St., Calcutta 700001.

Scientific Industries, 51/A, Raja Dinendra St., Calcutta 700009.

LEYLAND SPARES

Vijay Commercial Corpn., 5-B, Bansilal Bldg., 64-D, J. Shankar Shet Marg, Bombay 400004.

LIQUOR IMPORTERS

Bharat Traders, 8/3, A. Ali Rd., New Delhi 110001.

Graham Trading Co. (Ind.) Pvt. Ltd., 6, Lyons Range, Calcutta 700001.

Great Eastern Stores Pvt. Ltd., 30, Chowringhee Rd., Calcutta 700001.

Hormusji & Co., 5, Dharamtolla St., Calcutta 700013.

K. L. Kapoor & Co. (Wines), Hotel Minerva Bldg., 11, G. Chandra Avenue, Calcutta 700013.

M. C. Shaw, 125, Lower Circular Rd., Calcutta 700014.

Maneckjee Jamshedjee, Jamshed House, 307, Frere Rd., Bombay 400001.

Navrojee & Co., Grand Hotel Bldg., East, 1 A. Bertram St., Calcutta 700013.

R. D. & Sons Pvt. Ltd., 12, Hare St., Calcutta 700001.

Shroff & Co., 307, M. Shaukatali Rd., Bombay 400007.

Spencer & Co., Ltd., Spencers' House, Forjett Rd., Bombay 400036.

LIQUOR, INDIAN-MADE FOREIGN

Fairmacs Trading Co., 33, B. B. Ganguly St., Calcutta 700012.

Forbes, Forbes Campbell Co. Ltd., Forbes Bldg., Home St., Bombay 400001.

Herbertsons Ltd., 5, Dalhousie Sq., Calcutta 700001.

Phipson & Co. Ltd., 6, Old Court House St., Calcutta 700001.

Shaw Wallace & Co. Ltd., 8/9, T. Chetty St., Madras 600001.

Spencer & Co. Ltd., 70, Diamond Harbour Rd., Calcutta 700023.

Spencer & Co. Ltd., Mount Rd., Madras 600002.

MACHINE TOOLS & MACHINERY

Delhi

Forbes, Forbes Campbell & Co. Ltd., Engg. Division, 9/10-3, Asaf Ali Rd., New Delhi 110001.

Hindustan Electric and Mill Stores Co., 58 G. B. Rd., Delhi 110006.

M. P. Mudgal & Co., 2897, Sirkiwalan, Kishan Market, Delhi 110006.

Machine Tools (India) Ltd., D-24, South Ext.—Part II, New Delhi 110049.

Karnataka

Alfred Herbert (I) Pvt. Ltd., 34/2, Cunningham Rd., Bangalore 560001.

Machine Tools (I) Pvt. Ltd., 41, Silver Jubilee Park, Bangalore 560002.

Maharashtra

Continental Machine Tools, 25, Bank St., Bombay 400001.

Hindustan Engg. Co., Aban House, 25-31, Ropewalk St., Rampart Row, Bombay 400001.

Machine & Tools Corpn., Lentin Chambers, Dalal St., Bombay 400001.

Machinery Marketing Corpn., 261 Dr. D. Naoroji Rd., Bombay 400001.

Perfect Machine Tools Co. Pvt. Ltd., Bell Bldg., Sir P. Mehta Rd., Bombay 400001.

Seemaco, Cama Bldg., 24/26, Dalal St., Bombay 400001.

Tamil Nadu

ABMTM Pvt. Ltd., Fagun Mansion, 19, Commander-in-Chief Rd., Madras 600008.

Machine Tools (India) Pvt. Ltd., 49, Wallajah Rd., Madras 600002.

Machine Tool Traders, 57A, L. Chetty St., Madras 600001.

Mehta Doshi & Co., 334, T. Chetty St., Madras 600001.

West Bengal

ABMTM Pvt. Ltd., 21 Camac St., Calcutta 700016.

Balmer Lawrie & Co. Ltd., 21, N. Subash Rd., Calcutta 700001.

Hindustan Export & Import Corpn. Pvt. Ltd., Suite No. 2, 7, Circus Ave., Calcutta 700028.

S. N. Laha, 32A, Brabourne Rd., Calcutta 700001.

Sujauddin & Co., 75, N. Subash Rd., Calcutta 700001.

Union Tools & Agencies Pvt. Ltd., 1, Chandni Chowk St., Calcutta 700013.

MARINE DIESEL ENGINES

Standard Equipment Corp., 19, Bank St., Bombay 400001.

MILL STORES, HARDWARE

Manilal & Bros., Chawri Bazar, Delhi 110006.

W.R.T. Sales and Service Pvt. Ltd., 74, Sheriff House, S. B. Singh Rd., Bombay 400001.

(See 'Hardware' in this list)

MINERALS

Amiaca Minechem Ind., 129/131, Kazi Syed St., Bombay 400003.

Bombay Mineral Supply Co., 138 Nagdevi St., Bombay 400003.

Golcha Mineral & Chemical Ind., 10, Clive Row, Calcutta 700001.

Gujarat Clay Mills, 246, Reay Rd., Bombay 400010.

Indian Clay & Mineral Co., Trombay Lane, Mazagaon, Bombay 400010.

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Forbes, Forbes Campbell & Co. Ltd., 147-C, 5th Main Rd., Chamarajpet, Bangalore 560018.

Maharashtra

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Khira Steel Works Pvt. Ltd., Khira Bhavan, Sandhurst Bridge, Bombay 400007.

Killick Nixon Ltd., Killick House, Home St., Bombay 400001.

Methodex Business Systems, 33A New Marine Lines, Bombay 400020.

Office Equipment Co. of India, Bombay Mutual Bldg., Sir P. Mehta Rd., Bombay 400001.

Remington Rand of India Ltd., Mehta Mahal, Mathew Rd., Bombay 400004.

Tamil Nadu

Office Appliances Co., 151A, Pur H. Rd., Madras 600007.

West Bengal

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K. Shah & Co., 1956/3, Opp. English Cinema, Khadia Char Rasta, Ahmedabad 380001.

Kirti & Co., 2/79, Sembudoss St., Madras 600001.

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Rangoon Studios, 58, Janpath, New Delhi 110001.

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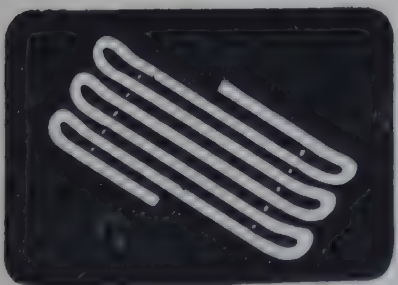

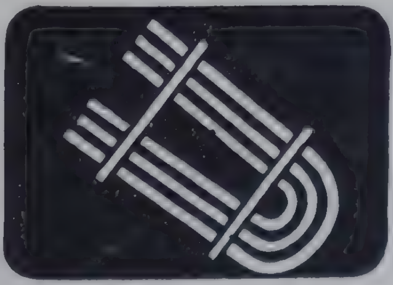

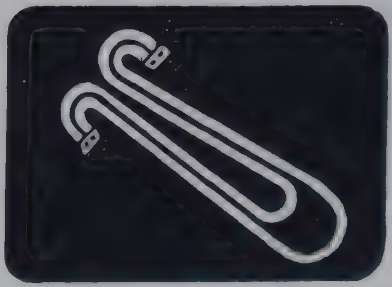

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Manekchand J. Jhaveri, 190A, S. Memon St., Bombay 400002.
Manekchand Keshrichand, 128, Cumbala Hill, Kemp's Corner, Bombay 400026.
Maneklal Bhagwandas Patel, 42, A. Rehman St., Bombay 400003.
Maneklal Gopaldas Patel, A-2, Queen's View, Walkeshwar Rd., Bombay 400006.
Maneklal Vadilal & Co., 123, Mumbadevi Rd., Bombay 400003.
Manilal Aditram Jhaveri, Cordeiro House, 48, St. Xavier's St., Parel, Bombay 400012.
Manilal Gafurbhai Shah, 110, 3rd Bhoiwada, Bombay 400002.
M. G. Shah, 101, S. Memon St., Bombay 400002.
Milan Gems, 20, D. Agiary Lane, Bombay 400002.
Mohanlal M. Shah, C-11, Kakad Niketan, Derasar Lane, Ghatkopar, Bombay 400077.
Motilal Dahyabhai Jhaveri, 97-99, S. Memon St., Bombay 400002.
Motilal Vijbhukhandas, 115, S. Memon St., Bombay 400002.
Mukund Jewellers, Choksey Chambers, 117, S. Memon St., Bombay 400002.
Mulchand Nathalal Patel, Kansara Chawl, 94, Kalbadevi Rd., Bombay 400002.
Murlidhar & Sons, 62, Dhanji St., Bombay 400003.
Nagindas Jethalal, Kansara Chawl, 64, Kalbadevi Rd., Bombay 400002.
Nandlal C. Patel, 512/520, Gulab Mahal, Arthur Rd., Tardeo, Bombay 400034.
Nanubhai Jewellers, 115, M. Gandhi Rd., Fort, Bombay 400001.
Narbheram V. Minawala, 252/58, Zaveri Bazar, Bombay 400002.
Narotamdas Bhau, Bhaskar Mansion, 437, Lamington Rd., Bombay 400004.
Natvarlal Hiralal Javeri, 70, Kansara Chawl, Kalbadevi Rd., Bombay 400002.
Natvarlal Prabhudas Patel, Jawahar Mansion, Thakurdwar Rd., Bombay 400002.
Navinchandra Motilal Shah, Kakakau's Bldg., 110, Bhuleshwar, Bombay 400002.
Navnitlal Manilal Dalal, 37, A. Rehman St., Bombay 400003.
Navratna Art Jewellers, 143, Sarang St., Bombay 400003.
N. F. Oostad & Sons, 108, S. Memon St., Bombay 400002.
Nemichand G. Kasliwal & Co., Kasliwal Bhuvan, 35, 3rd Bhoiwada, Bombay 400002.
Nihalchand Girdharilal Javeri, 98, S. Memon St., Bombay 400002.
Nikdas Traders, 645, Girgaum Rd., Bombay 400002.
N. K. Zaveri, 101, S. Memon St., Bombay 400002.
Noble Gem House, Sushila Baug, S. Vivekanand Rd., Santa Cruz West, Bombay 400054.
Orient Jewellers, Panchsheela, 69-71, Dhanji St., Bombay 400003.
Palayam Gem Corpn., 99, Mohamedali Rd., Bombay 400003.
Pallak Commercial Corpn., 13, Mirza St., Bombay 400003.
Panachand Manordas Shah & Co., Krishna Nivas, 305, Masjid Bunder Rd., Bombay 400003.
Panalal Mohanlal Kothari, 118, Kalbadevi Rd., Bombay 400002.
Parsram's, 18, Karwar Street, Fort, Bombay 400001.
Pavan International, 125, Sindhi Society, Chembur, Bombay 400071.
P. Dalal & Company, 104, Kakad Chambers, 132, Dr. A. Besant Rd., Worli, Bombay 400018.
Pitambardass Mohanlal & Sons, 4, Mandlik Rd., Causeway, Bombay 400001.
Poonambaboo & Son, B. Jestharam Baug, Vincent Rd., Dadar, Bombay 400014.
Pooranchand Godika, Diamond House, Dhanji St., Bombay 400003.
Prabhulal Bapulal Patel, Navayug Sagar, Teen Batti, Walkeshwar, Bombay 400006.
Pradyuman T. Shah, Parijat, 95, Marine Drive, Bombay 400002.
Prakash Jewellers, Shamkala Bldg., 100, Walkeshwar Rd., Bombay 400006.
Pransukhlal Bros., 7, New Queen's Rd., Opera House, Bombay 400004.
Prashant Jewellers, 45/47, Dhanji St., Bombay 400003.
Precious Stone Trdg. Co., 78/80, Bazargate St., Fort, Bombay 400001.
Pregems Corpn., Natvar House, 42, A. Rehman St., Bombay 400003.
Premchand Keshrichand Kothari, 414, Chandralok 'B', Manav Mandir Rd., Malabar Hill, Bombay 400006.
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Prashant Corpn., 1511, Prasad Chambers, Near Roxy Cinema, Bombay 400004.
Raghunandan Prasad & Co., 12/14, Dhanji St., Bombay 400003.
Rajendrakumar A. Shah, 163-165, S. Memon St., Bombay 400002.
Rameshchandra Kantilal Zaveri, 101, S. Memon St., Bombay 400002.
Rameshchandra Mangalbhai Jhaveri, 224, S. Memon St., Bombay 400002.
Rameshchandra V. Mehta, Shyam Sadan, Bajaj Rd., Vile Parle West, Bombay 400056.
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Rasiklal Bapulal Parikh, Panchasar No. 1, 76/32, Marine Drive, Bombay 400020.
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R. Kantilal & Co., 8/9, Gulab Baug Society, K. Desai Rd., Vile Parle (West), Bombay 400056.
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R. S. Jewellers, 542, S. Patel Rd., Gandhi Bldg., Bombay 400007.
Russem & Co., 82/86, A. Rehman St., Bombay 400003.

Sagarmal Daga & Co., 80-94, Mirza St., Bombay 400003.
Salayar Traders, 153, Janjikar St., Bombay 400003.
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S. G. Jhaveri & Co., 134-136, S. Memon St., Bombay 400002.
S. Gupta & Co., 26-27, 3rd Pasta Lane, Bombay 400005.
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Shah Brothers, 96/75, S. Memon St., Bombay 400002.
Shani Jewellers, 61-63, Rajwadekar St., Colaba, Bombay 400005.
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Shantilal Ambalal Metha, 409, Chandralok 'B', Manav Mandir Rd., Walkeshwar, Bombay 400006.
Shantilal & Co., 205, Mumbadevi Rd., Bombay 400002.
Shanti Praful & Co., 39/41, A. Rehman St., Bombay 400003.
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Thakore Keshrisingh Mavsingh, 27, Jamboolwadi, Bombay 400002.
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Tilokchand Chetandas, 61/63, S. Memon St., Bombay 400002.
Tribhovandas Bhimji Zaveri, 241-243, S. Memon St., Bombay 400002.
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Vadilal Fulchand Patel, Block 'A', Bihari Bag, 3rd Bhoiwada, Bombay 400002.
Vadilal Sunderlal Patel & Co., 64, Kansara Chawl, Kalbadevi Rd., Bombay 400002.
Vajramani & Co., 94, Kansara Chawl, Kalbadevi Rd., Bombay 400002.
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Vinod & Co., Sagarmahal, 65, Walkeshwar Rd., Bombay 400006.
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V. Kundamal Chandumal, 252/54, S. Memon St., Bombay 400002.
Yogini Gems, 'Swashray', 81, Marine Drive, Bombay 400002.
Y. S. Fazlehusen, 68, Mohammedali Rd., Bombay 400003.

Rajasthan

Bhuramal Rajmal Surana, Lal Katra, Johari Bazar, Jaipur 302003.
G. D. Daga & Co., Bara Gangore, Jaipur 302001.
Gem Trdg. Corpn., Tedkia Bldg., Johari Bazar, Jaipur 302003.
Gokuldas H. Kotahwala, Lal Katra, Haldion Ka Rasta, Jaipur 302001.
Khailshanker Durlabhji, P. B. 78, Jaipur 302001.
Maliram Puranmal, Gopalji Ka Rasta, Jaipur City 302001.
Mannalal Soorana, Hanuman Rd., Jaipur City 302001.
Precious Gemma, 154, Haldion Ka Rasta, Johri Bazar, Jaipur 302003.
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Shantilal Pandya & Sons, Patolia House, Gheewalon Ka Rasta, Jaipur 302001.
Sobhagmull Kokalchand Jewellers, Motisingh Bhomiyon Ka Rasta, Johri Bazar, Jaipur 302001.
V. C. Durlabhji, P.B. 57, Jaipur City 302001.
V. H. Jewellers, Kalon Ka Mohalla, P.B. 26, Jaipur 302001.

Tamil Nadu

Gem Exports, 3/127, Mount Rd., Madras 600002.
Noor & Sons, 224, Angappa Naicken St., Madras 600001.
S. M. Syed Mubarak & Co., 14, Gandhapodikara St., Karur, Trichy 620001.
Vadilal Mangalji Mehta, 3, Prakasam Road, T. Nagar, Madras 600017.
Veecumsee Jewellers, N. S. C. Bose Road, Madras 600001.

West Bengal

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Andhra Pradesh Co., 11, Durga Bhuvan, Rashtrapathi Rd., Secunderabad 500003.

Delhi

Agricultural Engg. Co., Naya Bazar, Delhi 110006.
Associated Engineers, Katra Shan Shai, Chandani Chowk, Delhi 110006.
Great India Engg. Co., 48, Shardanand Marg, G. B. Rd., Delhi 100006.
Jaycee Machinery Mart, 52 Shardhanand Marg, New Delhi 110006.

Karnataka

Mahakali Engg. Corpn., No. H/66, Nagarthpet, Bangalore 560002.

Maharashtra

A. N. Seth & Co., 140, Meadows St., Bombay 400001.
Batliboi & Co., Bharat House, Apollo St., Bombay 400001.
Bharat Electrical Engg. Corpn., 21, Dalal St., Bombay 400001.
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Dipak Engg. Co., Hamam St., Bombay 400001.
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Nigos Sales Agency, 64 Forbes St., Bombay 400001.
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Toshiniwal Bros. Pvt. Ltd., 198, J. Tata Rd., Bombay 400001.

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Vijay Engg. & Machinery Co., Bombay Mutual Annexe, Cawasji Patel St., Bombay 400001.

Water Supply Specialists Pvt. Ltd., 8, Hamam St., Bombay 400001.

Tamil Nadu

Diamond Engg. Co., 6, Errabalu Chetty St., Madras 600001.

West Bengal

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Asea United Traders & Industries Pvt. Ltd., 10-B, Kapalitolla Lane, Calcutta 700012.

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Deepak Engg. Co., 37, Canning St., Calcutta 700001.

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General Machinery Corpn., 67 G. C. Ave., Calcutta 700013.

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Wellwater Services Pvt. Ltd., 63, Radha Bazar St., Calcutta 700001.

West Bengal Engg. Co., 138, Canning St., Calcutta 700001.

Western India Machinery Co., 24 G. C. Ave., Calcutta 700013.

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D. Nath & Co., 3681, Chawri Bazar, Delhi 110006.

Goojar Mal Ganpat Rai, 33271, Hauz Kazi, Delhi 110006.

M. M. Arora & Co., 3639/10, Chawri Bazar, Delhi 110006.

Mahabir Pershad & Sons, Chawri Bazar, Delhi 110006.

Prakash & Co., Chawri Bazar, Delhi 110006.

Prem Enamel & Metal Factory, Bara Hindu Rao, Delhi 110006.

R. B. Rodda & Co. Ltd., 4K, Connaught Place, New Delhi 110001.

SANITARY GOODS

Gujarat

Gujarat Tube & Sanitary Stores, Khadia Char Rasta, Ahmedabad 380001.

Maharashtra

Aranha Agencies, St. Michael Ch., L. J. Rd., Mahim, Bombay 400016.

Asgaralli Nuruddin & Co., 95, Nagdevi St., Bombay 400003.

Bharat Trading Co., Agra Rd. Naka, Ghatkopar, Bombay 400086.

C. Bhogilal & Co., Hanuman Bldg., Behind Reserve Bank, P. Nariman St., Bombay 400001.

R. Moolchand & Co., 44, Nagdevi Cross Lane, Bombay 400003.

United Potteries & Glassware Mart, 22, Noble Chambers, S. A. Brelvi Rd., Bombay 400001.

Tamil Nadu

Bharat Sanitary Stores, 29 Perianna Maistry St., Madras 600001.

Calcutta Light Casting Supply Co., 19, E. Chetty St., Madras 600001.

V. Govindraja Mudaliar Sons, 58, T. Chetty St., Madras 600001.

Madras Sanitary Mart, 418, Triplicane High Rd., Madras 600005.

Modern Sanitary Supplies, 24, T. Chetty St., Madras 600001.

West Bengal

Allied Agencies (India), 10, N. Chander St., Calcutta 700012.

Emporia of Commercial Stores, 22, N. Subash Rd., Calcutta 700001.

Ghose & Co., S., 25, College St., Calcutta 700012.

Hindustan Distributors, 31 Ch. Ave., Calcutta 700012.

Laxmi Pottery Agencies, 7, R. Bazar St., Calcutta 700001.

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R. D. Bansal & Co., 20/1, Lal Bazar St., Calcutta 700001.

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SCRAP

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Metal Scrap Trade Corpn. Ltd., P-34, India Exchange Place, Calcutta 700001.

Nathani Steel Yard, Vidya Vihar Railway Station, Bombay 400086.

Waste & Scrap Reclamation Centre, 1-1, Edward Elliots Rd., Madras 600004.

SCIENTIFIC INSTRUMENTS & LABORATORY EQUIPMENTS

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India Scientific Stores, 562, Esplanade Rd., Delhi 110006.

Indian Technological Products, 21, Babar Rd., New Delhi 110001.

Scientific Equipment Works, Nicholson Rd., Delhi 110006.

Scientific Instruments Co. Ltd., B-7, Ajmeri Gate Extn., New Delhi 110001.

Gujarat

Scientific & Surgical Corpn., Amar House, Relief Rd., Ahmedabad 380001.

Maharashtra

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S. Sircar & Co. Pvt. Ltd., 2/13, Vanier St., Madras 600001.

West Bengal

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International Commercial Traders, 18, Era St., Calcutta 700001.

Luxmi Scientific Glass Works, 4/8, Ultadanga Main Rd., Calcutta 700004.

New India Scientific Works, 63, Baithakhana Rd., Calcutta 700004.

Oriental Trading Corpn., 71, Canning St., Calcutta 700001.

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West Bengal

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SPORTS GOODS

Goa

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Tamil Nadu

Lightway Sports Co., 199, Mount Rd., Madras 600002.

West Bengal

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Harilal & Co., 18, Rohit Chambers, Parsee Bazar St., Bombay 400001.

Marvin & Co. Pvt. Ltd., 3, Mody Chambers, Kennedy Bridge, Bombay 400004.

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Tilkam Agencies, 118, Yanam Venkatachalem Street, Pondicherry 1.

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Maharashtra

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Arvinda Trading Co. Pvt. Ltd., 105, Apollo St., Fort, Bombay 400001.
B. Thanawala & Sons Pvt. Ltd., 47, Tamarind Lane, Fort, Bombay 400001.
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Engineering & Agencies Pvt. Ltd., French Bank Bldg., Homji St., Fort, Bombay 400001.
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Fine Dyestuffs & Chemicals (India) Ltd., 61, Apollo St., Fort, Bombay 400001.
Indian Textile Engineers, Pvt. Ltd., 81-83, Veer Nariman Rd., Bombay 400020.
Indo-Foreign Textile Co., 43, Tamarind Lane, Bombay 400001.
Indokem Pvt. Ltd., 221, Dr. D. Naoroji Rd., Bombay 400001.
Industrial Leather Co. Ltd., 9 Ash Lane, Bombay 400001.
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Ormerods (India) Pvt. Ltd., 12, Apollo St., Bombay 400001.
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S. C. Sheth & Co. Pvt. Ltd., 8, Hamam St., Bombay 400001.
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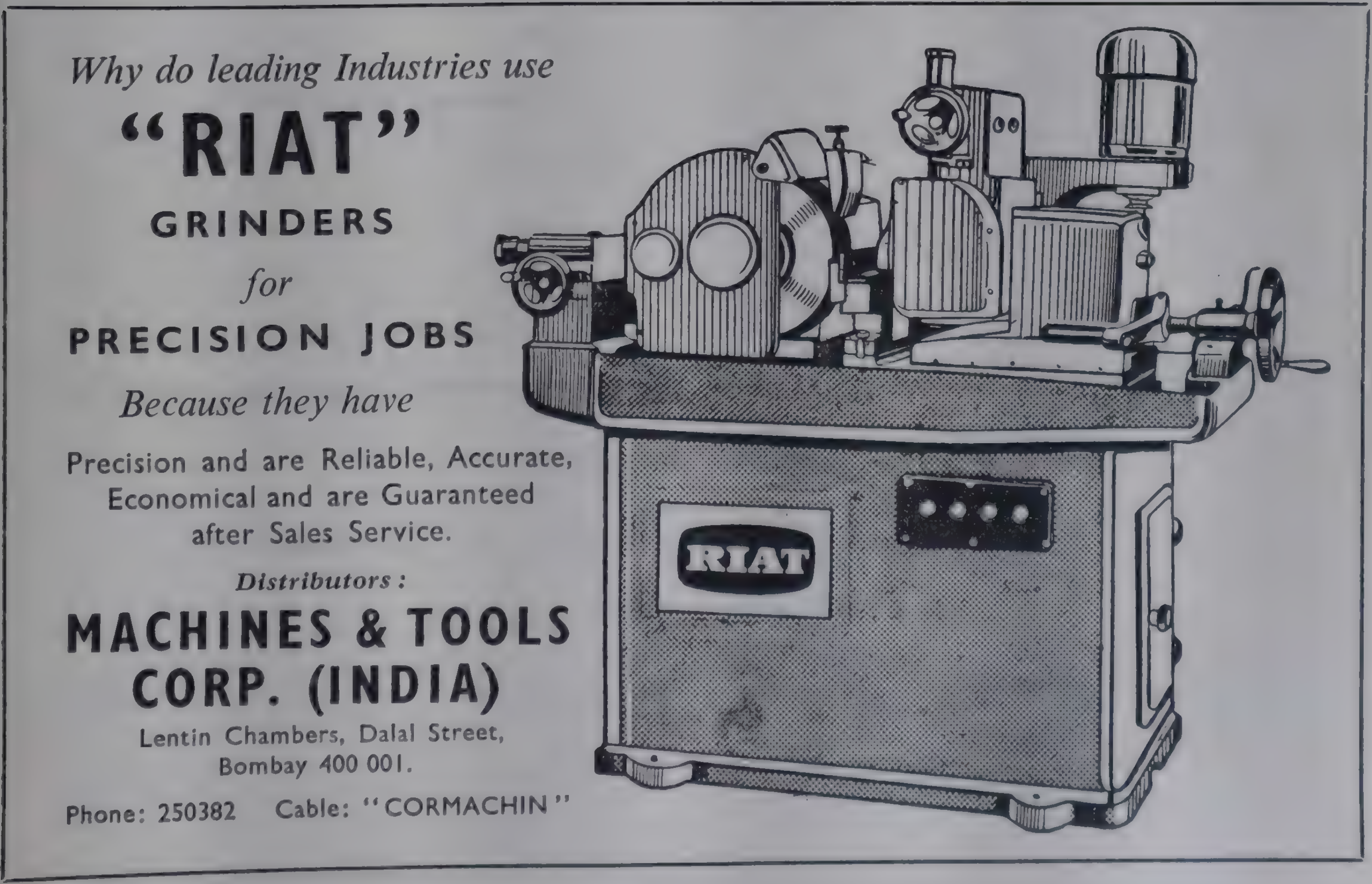
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Chunibhai C. Patel, Relief Rd., Near Relief Cinema, Ahmedabad 380001.

Gajanan H. Pathak, Haridas Jamnadas Bldg., Khadia, Char Rasta, Ahmedabad 380001.

Grihvidhan, Architectural Service Centre, Dr. Yagnik Rd., Rajkot 360001.

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Architects Incorporated, 3, Court Lane, Court Rd., Civil Lines, Delhi 110006.

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Chadda & Associates, Flat No. 2, Shankar Market, Connaught Circus, New Delhi 110001.

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Kanvinde & Rai, 14-F, Central Ring, Connaught Place, New Delhi 110001.
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* Bank of Maharashtra, 1177, Budhwar Peth, Pune 411022.
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Bank of Tokyo Ltd., (H.O. Japan); Jeevan Prakash, Sir P. Mehta Rd., Bombay 400001.
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* Canara Bank, Canara Bank Bldg., 112, Jayachamarajendra Rd., Bangalore 560002.
* Central Bank of India, Harchandrai House, 81, M. Karve Rd., Bombay 400020.
Chartered Bank (H.O. London), 25, M. Gandhi Rd., Bombay 400001.
* Dena Bank, Devkaran Nanjee Bldg., 17, Horniman Circle, Bombay 400001.
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Reserve and other Funds	Rs.	64,85,000·00
Deposits	Rs.	20,17,03,000·00
Advances	Rs.	7,62,29,000·00
Cash & Investments in Govt. Securities	Rs.	13,91,44,000·00
Deposits	Rs.	17,19,48,000·00
Working Capital	Rs.	23,79,26,000·00
Annual Turn-over exceeds	Rs.	5,00,00,00,000·00
Last Dividend paid		9% (per cent)
Government Audit Classification ..		'A'

Chairman: Khan Bahadur Shaikh Mohamedally Allabux.

Managing Director: Zain G. Rangoonwala,

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Capital Stock Issued ..	**£ 9,680,000**
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Assistant General Managers: L. A. Powell, R. Walker, G. R. Lovell, N. McMillan.

Joint Secretaries: E. Hampden Smith, F.C.I.S., L. R. Bishop.

Chief Manager in India (Calcutta), D. C. Porter.

Calcutta Branch: 4, Netaji Subhas Road, Calcutta 1.

Calcutta Manager: N. H. Green.
Telegraphic Address: "CHARTABANK" Telex: 021281
Phone: 226902 (6 lines):

Calcutta, Bowbazar: 10, Nirmal Chunder Street, Calcutta 13.

Chowringhee: 31, Chowringhee Road, Calcutta 16.

Clive Row: 14, Netaji Subhas Road, Calcutta 1.

Gariahat: 208, Rash Behari Avenue, Calcutta 29.

Jorasanko: 6, Vivekananda Road, Calcutta 7.

Shyambazar: 21/A, R. G. Kar Road, Shyambazar, Calcutta 4.

Cossipore: 67, Cossipore Road, Calcutta 36.

Bombay Branch: 25, Mahatma Gandhi Road, P.O. Box 558, Bombay.

Manager: P. B. Pickering.
Telegraphic Address: "CHARTABANK" Telex: 0112230
Phone: 257198 (10 lines)

Andheri: "Rayfreda", Plot 52, Junction of Andheri-Kurla Road and Mahakali Caves Road, Chakala, Andheri East, Bombay 69-AS.

Chowpatty: "Shree Pant Bhuvan" (Dadajee Dhackjee Bldg.), Sandhurst Bridge, Bombay 7 WB.

Ghatkopar: 170, Ashok Derasar Lane, Ghatkopar (East) TPS III, Bombay 77-AS.

Dr. D. N. Road: P.O. 219, 381, Dr. Dadabhai Naoroji Road, Fort, Bombay.

Worli: 264-265, Dr. Annie Besant Road, Bombay 25-DD.

Amritsar Branch: P.O. Box 18, Gandhi Bazar, Amritsar.

Cochin Branch: P.O. Box 616, 45/490 Hospital Road, Willingdon Island, Cochin 3.

Calicut Branch: P.O. Box 10, 7/575-A, Town Hall Road, Calicut 1.

New Delhi Branch: P.O. Box 344, 17, Parliament Street, New Delhi 1.

Delhi Branch: P.O. Box 1050, 29, Netaji Subhas Marg, Daryaganj, Delhi 6.

Kanpur Branch: P.O. Box 64, 16/49, Mahatma Gandhi Road, Kanpur.

Madras Branch: P.O. Box 58, 371, Esplanade Row, Madras 1.

Mylapore Branch: 37, Royapettah High Road, Madras 14.

Armenian Street: 108/109, Armenian Street, Madras 1.

Sambhaji: Swatantrya Path, P.O. Box 97, Sambhaji, Goa.

DENA BANK

(A Government of India Undertaking)

Head Office : Horniman Circle, Bombay 400 023.

Total Deposits: Rs. 300 Crores

as on 31st December 1974

Total Advances: Rs. 215 Crores

as on 31st December 1974

Number of Deposit Accounts: 15 Lakhs

as on 31st December 1974

586 Branches in 15 States and 4 Union Territories and 88 Safe Deposit Vaults as on 31st December 1974.

GENERAL BANKING BUSINESS TRANSACTED AND INLAND AND FOREIGN LETTERS OF CREDIT ARRANGED

AGENTS IN LONDON :

The Chase Manhattan Bank N. A.
Midland Bank Ltd., Barclay's Bank (International) Ltd.,
Bank of Baroda and National Westminster Bank Ltd.

AGENTS IN WEST GERMANY :

Deutsche Bank A. G. Hamburg

AGENTS IN NEW YORK :

The Chase Manhattan Bank N.A.
Manufacturers Hanover Trust Co.

AGE IS NOT OUR ONLY ASSET

With age comes experience. And expertise. To give you the kind of service that helps you and your business prosper. It is not just finance that entrepreneurs need. Our specialist cells like our Small Scale Consultancy Services Division and Merchant Banking Division offer advice on management, marketing and financial control. And our Export Information Services can help locate new markets abroad for your products.

Comprehensive banking services backed by modern management techniques. And a staff specially trained to identify customer needs and supply finance and services.

With a banking tradition in India of nearly 150 years, age is not our only asset.

GRINDLAYS MAIN BRANCHES IN INDIA:

AMRITSAR: Gandhi Bazar, Post Box 3, Amritsar 143 001; Katra Ahluwalia, Amritsar 143 001. **BANGALORE:** Unity Building, Mission Road, Post Box 6747, Bangalore 560 002. **BOMBAY:** 90 Mahatma Gandhi Road, Post Box 141, Bombay 400 023; 270 Dr. Dadabhoy Naoroji Road, Post Box 48, Bombay 400 001; 110 Kazi Syed Street, Mandvi, Bombay 400 003; 132 Mint Road, Post Box 93, Bombay 400 001; 21 Shamaldas Gandhi Marg, Bombay 400 002; also 7 sub-branches. **CALCUTTA:** 19 Netaji Subhas Road, Post Box 218, Calcutta 700 001; 17 Brabourne Road, Post Box 309, Calcutta 700 001; 6 Chittaranjan Avenue, Post Box 8854, Calcutta 700 013; 31 Chowringhee Road, Post Box 9006, Calcutta 700 016; 41 Chowringhee Road, Post Box 9053, Calcutta 700 016; 6 Church Lane, Post Box 694, Calcutta 700 001; 29 Netaji Subhas Road, Post Box 306, Calcutta 700 001; also 11 sub-branches. **COCHIN:** Bristow Road, Willingdon Island, Post Box 501, Cochin 682 003; also 1 sub-branch. **DARJEELING:** 43 Laden La Road, Darjeeling 734 101. **GAUHATI:** Fancy Bazar, Post Box 114, Gauhati 781 001. **HYDERABAD:** 5-9-235 Mahatma Gandhi Road, Post Box 117, Hyderabad 500 001. **KANPUR:** 16 Mahatma Gandhi Road, Post Box 26, Kanpur 208 001. **MADRAS:** 378 Netaji Subhas Chandra Bose Road, Post Box 1359, Madras 600 001; 6 Armenian Street, Post Box 49, Madras 600 001; 11A/1 Mount Road, Post Box 2744, Madras 600 002; 36D Mount Road, Post Box 397, Madras 600 002. **NEW DELHI/DELHI:** 10 Parliament Street, Post Box 5, New Delhi 110 001; 29A/1 Asaf Ali Road, Post Box 433, New Delhi 110 001; Chandni Chowk, Post Box 1024, Delhi 110 006; H Block, Connaught Circus, Post Box 317, New Delhi 110 001; 10E Connaught Place, Post Box 13, New Delhi 110 001; Pay Office, World Health Organisation, Post Box 5, New Delhi 110 001; also 4 sub-branches. **SIMLA:** The Mall, Post Box 7, Simla 171 001. **SRINAGAR:** Residency Road, Srinagar 190 001. **TUTICORIN:** 44 Beach Road, Tuticorin 628 001.

OFFICE OF THE GENERAL MANAGER IN INDIA: 90 Mahatma Gandhi Road, Post Box 725, Bombay 400 023; 19 Netaji Subhas Road, Post Box 2645, Calcutta 700 001. **MERCHANT BANKING DIVISION:** 11th Floor, Express Towers, Nariman Point, Post Box 1330, Bombay 400 021. **SMALL SCALE CONSULTANCY SERVICES DIVISION:** 132 Mint Road, Post Box 93, Bombay 400 001; 5 Fairlie Place, Post Box 218, Calcutta 700 001.

Grindlays Bank Limited

Incorporated in the United Kingdom.
The liability of members is limited.

ASP/K874/13R2

THE MAHARASHTRA STATE CO-OPERATIVE BANK LIMITED, BOMBAY.

(Incorporating the Vidarbha Co-operative Bank Ltd.)

Head Office:
9, Bakehouse Lane,
Fort, Bombay 400001

Regional Office:
Mahal, Nagpur.

Collection arrangements in all important cities. Banking business of every description transacted. Deposits of all kinds accepted.

	As on 30-6-1974
Capital and Reserves	**Rs. 29 crores**
Total Deposits	**Rs. 151 crores**
Loans	**Rs. 169 crores**
Working Capital	**Rs. 242 crores**

Branches in Greater Bombay :

1. Andheri
2. Andheri — Versova
3. Bandra (East)
4. Bandra (West)
5. Borivli
6. Byculla
7. Chembur
8. Dahisar
9. Goregaon
10. Jogeshwari
11. Kandivli (East)
12. Khar
13. Kurla (West)
14. Lalbaug
15. Mahim
16. Malad
17. Matunga
18. Mulund
19. Parel
20. Peddar Road
21. Prabhadevi
22. Santacruz (East)
23. Santacruz (West)
24. Sion
25. Umarkhadi
26. Vikhroli
27. Vile Parle (East)
28. Vile Parle (West)

Apex of the integrated Co-operative Credit Structure with over 1,450 offices of Central and Urban Co-operative Banks in the State.

STATE BANK OF INDIA

(Constituted under the State Bank of India Act, 1955)

AUTHORISED CAPITAL	Rs. 20,00,00,000
(*a*) Paid-up Capital as on 31-12-1974	Rs. 5,62,50,000
(*b*) Reserve Fund and Other Reserve as on 31-12-1974	Rs. 45,82,75,052

Local Head Offices

Calcutta/Bombay/Madras/New Delhi/Kanpur/Ahmedabad/Hyderabad/Bhopal/Patna.

Foreign Offices

London Offices : Clements House, 14/18, Gresham Street, London, E.C. 2P. 2JP.
: Clarendon House, 10/12, Clifford Street, London W.1.
: King's House, The Green, Southall, Middlesex, London.
New York : 460, Park Avenue, New York, N.Y. 10022.
Sri Lanka : 16, Prince Street, Colombo-1.
Maldive Islands : Male, Republic of Maldives, Via Colombo.

Representative Offices

(*a*) Western Europe : Goethestrase, 26-28, 6, Frankfurt (Main), West Germany.
(*b*) MiddleEast : Arab Bank Building, Raid-El-Solh Street, Post Box No. 7252, Beirut (Lebanon).
(*c*) Total Number of Offices : 3,409 upto 31st December 1974.

Chairman : **Shri R. K. Talwar**
Vice-Chairman : **Shri B. D. Garware**
Managing Director : **Shri T. R. Vardachary**
Deputy Managing Directors : **Shri A. B. Majumdar**
Shri P. C. D. Nambiar

Name of Subsidiaries

State Bank of Bikaner & Jaipur/State Bank of Hyderabad/State Bank of Indore/State Bank of Mysore/State Bank of Patiala/State Bank of Saurashtra/State Bank of Travancore.

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bank of maharashtra

1177, BUDHWAR PETH, POONA-411 002.

Ready to serve you too
every day, in every way . . .

We call it our Total Banking Service, bringing you every conceivable Saving Scheme, safety of your valuables, financial aid to industry and trade, and economic development of backward areas.

Let us list what services we offer :

- **Savings Bank Account**
- **Fixed Deposit Account**
- **Cumulative Deposit Scheme**
- **Travellers 'Cheque'**
- **Gift Cheque**
- **Shubhamangal Deposit Scheme**
- **Current Account**
- **Recurring Deposit Account**
- **Annuity Deposit Scheme**
- **Lokmangal Daily Deposit Scheme**
- **Safe Deposit Lockers**
- **Aid to Small Industries, Agriculture, Small Enterprises, Professionals etc.**
- **Foreign Exchange Business**
- **Executor & Trustee Business**

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BANK OF MAHARASHTRA
1177, Budhwar Peth, Poona-411 002.

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under our
ADARSH DEPOSIT SCHEME
An Ideal Scheme for Daily Savers

●

SYNDICATE BANK
"50 Years of Progressive Banking"

●

Head Office:
Manipal (Karnataka State)

K. K. PAI
Managing Director.

Grindlays Bank Ltd., (H.O.: London); 90, M. Gandhi Rd., Fort, Bombay 400001.
* Indian Bank Ltd., 17, North Beach Rd., Madras 600001.
* Indian Overseas Bank 151, Mount Rd., Madras 600002.
Maharashtra State Co-operative Bank Ltd., H.O.: 9, Bakehouse Lane, Fort, Bombay 400001.
Mercantile Bank Ltd., (H.O.: Hong Kong); 52 Gandhi Rd., Bombay 400001.
Mitsui Bank Ltd., (H.O.: Japan); 6, Wallace St., Dr. D. Naoroji Rd., Fort, Bombay 400001.
* Punjab National Bank, Parliament St., New Delhi.
State Bank of India, Backbay Reclamn., Bombay 400021.
* Syndicate Bank, Manipal, Karnataka.
* United Bank of India, 16 Old Court House St., Calcutta 700001.
* Union Bank of India, Makani Manzil, 274, P. Nariman St., Bombay 400001.
* United Commercial Bank, 10, Brabourne Rd., Calcutta 700001.

BLOCK MAKERS

Bombay Art Printers, Near Safed Pul, Kurla-Andheri Rd., Bombay 400072.
Bombay Process Studio, Crescent Chambers, Tamarind Lane, Bombay 400001.
Bharat Studio, 109, Mount Rd., Madras 600018.
Commercial Art Engravers Pvt. Ltd., Sane Guruji Premises, 386, V. Savarkar Marg, Prabhadevi, Bombay 400025.
Dabholkar Bros., 399B, Kalbadevi, Bombay 400002.
Express Block & Engraving Studios Pvt. Ltd., Mustafa Bldg., Sir P. Mehta Rd., Bombay 400001.
J. B. Motiwala, 38, Mota Mandir Lane, 3rd Bhoiwada, Bombay 400002.
National Blocks, 356, Girgaum Rd., Bombay 400002.
Novelty Process Studio, 17, Khambata Lane, Khetwadi Back Rd., Bombay 400004.
Rapid Process Works, 306, Kalbadevi Rd., Kakad Market, Bombay 400002.
Rexen Free, Process Block Makers, 3, State Bank St., (Opp Midland) Mount Rd., Madras 600002.
Salian Brothers, 161, Bora Bazar St., Bombay 400001.
Sivam Process, 2, T. Sahib St., Mount Rd., Madras 600002.
Solar Process Studio, 22, Apollo St., Bombay 400001.
Sun Process Works, 8, Swadeshi Mills Comp., Tata Rd., Off New Queen's Rd., Bombay 400004.
The Times of India Press, Dr. D. N. Rd., Bombay 400001.

BUILDING SPECIALISTS

CONTRACTORS

Andhra Pradesh

Allied Construction Co., 6-3-898, Somajiguda, Hyderabad 500001.
Associated Engg. Enterprise, 10, Venkateswara Colony, Narayanaguda, Hyderabad 500001.
Deccan Engg. Co., 145/155, Lakshmi Marepalli, Secunderabad 500003.
Dhirubhai D. Thumar & Co., 256/6, Nehru Nagar, Secunderabad 500026.
Doshi Bros., 3-6-362/3, Street No. 2, Himayatnagar, Hyderabad 500029.
G. Chandriah & Sons, H. No. 3/5, Alwal, Secunderabad 500003.
Hindustan Engg. Syndicate, Kovelamoodiveri St., Vijayawada 520001.
Lachhman Singh & Bros., 3-6-361/6, Himayatnagar, Hyderabad 500029.
Nagabhushanam & Co., Suryarao Peth 2, Vijayawada 520001.
Premier Construction Co., 20, Lalbahadur Stadium, Hyderabad 500001.
S. Ramachandra Reddy & Co., 1-2-303-G, Mahal Rd., Hyderabad 500001.
Udani Engg. Co. Pvt. Ltd., 1-1-269, Chikadpally, Hyderabad 500001.
Unique Engg. Corpn., 30, Jeera, Secunderabad 500003.

Assam

A. K. Singh, 6, Police Lines, Tezpur 784001.
Bhoj Raj, Railway Colony, Silchar, 788001.
Ghanshyamdas & Co., Rangapara, Darrang Dist.
S. C. Das & Co., D. C. Barucha Rd., Tarajan, Jorhat 785001.
Santnath Construction, Kamar Chubari, Tezpur 784001.
Sunilkumar Gope, Main Rd., Tezpur 784001.
Uttamchand Rupani, D-4, B. K. Das Bldg., Maligaon, Gauhati 781001.

Bihar

G. S. Atwal & Co. (Engg.) Pvt. Ltd., Bokaro Steel City 827011.

Chandigarh

Abecederains, 2202, Sector 21 C, Chandigarh 160017.
B. K. Gujral & Co., 1004, Sector 18 C, Chandigarh 160017.
Chandigarh Construction Co., 204, Sector 9 C., Chandigarh, 160017.

Darshansingh Ahuja, 56, Sector 28 A., Chandigarh 160017.
Des Raj & Sons, 3340, Sector 21 D., Chandigarh 160017.
Kapoor Bros., 528, Sector 10 D., Chandigarh 160017.
Kundan Lal & Sons, 52, Sector 28 A., Chandigarh 160017.
Manchanda Bros., 107, Sector 27 A., Chandigarh 160017.
Orient Trdg. Corpn., 12, Sector 18 A., Chandigarh 160017.
Ranghubir Sing Chatterji Sing, 309, Sector 18 B., Chandigarh 160017
Sundra & Suri, 213, Sector 21 A., Chandigarh 160017.
United Builders, 11, Sector 9 A., Chandigarh 160017.
Uttam Singh Duggal & Co., 244, Sector 9 C., Chandigarh 160017.

Delhi

Dewan Chand Builders Pvt. Ltd., 33 B, Pusa Rd., New Delhi 110012.
Charanji & Co., 77, Krishna Nagar, New Delhi 110051.
Gian Singh Sukdev Singh, 42 K, Connaught Place, opp. Plaza, New Delhi 110001.
Krishan Lal Khattar, 33, New Market, West Patel Nagar, New Delhi 110008.
Malkit Singh & Bros., 3-12/56, Rajori Garden, New Delhi 110027.
Vira Construction Co., 103, Jor Bagh, New Delhi 110003.

Goa

Lithoferro, Rua de Mercado, Mapuca.

Gujarat

Jagdish Shah & Co., Ashok Niwas, Near Tower, Navsari, 396445.
M. S. Maheswary, Ambika Bhavan, 7, Patel Colony, Jamnagar 361001.
N. Kunwerji & Co., Kum Kum, Laxmiwadi, Main Rd., Rajkot 360001.
New Construction Co., 27, Embassy Market, Near Dinesh Hall, Navrangpura, Ahmedabad 380009.
Paramount Constructions, opp. Mandvi, Vadodara.
P. B. Construction Co., 1664, Motithai's Khadki, Mandvi St., Ahmedabad 380001.
Sayaji Iron & Engg. Co. Pvt. Ltd., Chhani Rd., Vadodara 390002.

Himachal Pradesh

Hira Lall Sud, Dalhousie Cantt. 176304.

Jammu & Kashmir

Bir Arjana Enterprises, 47D. Sector C., Gandhi Nagar, Jammu-Tawi 180001.
Ganesh Das Bhatia, 14, Rajendra Bazar, Jammu 180001.

Karnataka

B. N. Veerappa & Sons, 106-111, Cross Gandhi Nagar, Bangalore 560001.
Ferro Concrete Co. of India, Behind I.O.C. Petrol Pump, Saundatti, Belgaum 590001.
Gounder & Co., I.D.K./56, Hutha Colony, Bhadravati.
Shrinivasan Construction Co., Saroj 400, 1st Block N, Rajajinagar, Bangalore 560010.
Structocrates, 4, 12th Cross Malleswaram, Bangalore 560003.
T. Upendra Kamath, Consulting Engr. & Builder, Mercara, 571201.

Maharashtra

A. S. Sethi, Sethi House, Nr. Rly. Bridge, Akola 444001.
Akbaralli Abdul, N. Subash Rd., Akola 444001.
Amar Constructions, 5/73, Mira Housing Society, Shankersett Rd., Pune 411002.
Amrit Lal Bhavan, Nr. Satsang Bhavan, Akola, 444001.
Amul Construction Co., 279, Old Ravivar Peth, Pune 411002.
Arjunsingh Ramsingh, Malipura, Lakadgunj, Akola 444001.
Arun Construction Co., Sika Nagar, V. Patel Rd., Bombay 400004.
Associated Construction Co., 227-F. Kalbadevi Rd., Bombay 400002.
B. M. Malik, Vasantwadi, Jathar Peth, Akola 444001.
Babulal Nathuram Shah, 75, Navi Peth, Pune 411002.
Bagadia Construction Co., 356, Budhwar Peth, Pune 411002.
Bharat Construction, opp. Mori Rd., Municipal Sch., Mahim, Bombay 400016.
Bhikamchand Tapadia, Behind Cotton Market, Akola 444001.
Builders Corpn., Mathuradas Rd., Sunder Bagh, Kandivli West, Bombay 400067.
C. M. Patel & Co., 42/B/5, Budhwar Peth, Sholapur 413001.
Chandak Bros., Near Municipal Council, Washim.
D. G. Chaudhari, Godavari Niwas, Ramdas Peth, Akola 444001.
D. R. Patel & Co., Daulat Wadi, Bhokar Naka, Dhulia 424001.
Daulat Singh Madan & Sons, Panchsheel Housing Society, Yeotmal 445001.
Eapen Verghese & Co., 38, Super Shopping Centre, S. Vivekanand Rd., Andheri, Bombay 400058.
Edal Jal Cassad & Co., 58, Forbes St., Bombay 400001.
Govind Pandurang Apte, 759/63, Deccan Gym. Ganesh Sadan, Prabhat Rd., Pune 411001.
Haribhai Estates Pvt. Ltd., 17, Latif House, Iron Market, Bombay 400009.
Indian Prestress Corpn., 101, M. Gandhi Rd., Bombay 400001.
Industrial Engineers, 11/13, Botawalla Bldg., Horniman Circle, Bombay 400001.
Jagdish Construction Co., 96 B. Irla Bridge, S. Vivekanand Rd., Bombay 400056.
Jai Hind Construction Corpn., 1117, Ali Lakaki Rd., Pune 411002.
Janak Construction Co., 1/29, Navjivan Housing Society, D. Bhadkamkar Marg, Bombay 400008.
Jolly Bros. Pvt. Ltd., Lakshmi Insurance Bldg., Sir P. Mehta Rd., Bombay 400001.
Jolly & Maker Pvt. Ltd., Maker Bhavan, New Marine Lines, Bombay 400020.
Jyoti Construction Co., 130/132, A. Rehman St., Bombay 400003.
Khandelwal Builders Pvt. Ltd., Khandelwal House, Linking Rd., off Malad-Marve Rd., Malad West, Bombay 400064.
Kothari Constructions, 458, S. V. Patel Rd., Bombay 400004.
L. T. Construction Co., 439 Kalbadevi Rd., H. Premji Bldg., Bombay 400002.
M. P. Apte, 6, Everest, Peddar Rd., Bombay 400026.
Millars India, Victoria House, Victoria Rd., Bombay 400027.
Nenshi Monji, 123, M. Gandhi Rd., Fort, Bombay 400001.
Parikh Construction Co., Ushakal, 9A, Souther Est., Sangli 416416.

Patel Construction (India) Pvt. Ltd., Hamam House, Hamam St., Bombay 400001.
Popular Construction, 135, Hind Rajasthan Estate, 95, D. S. Phalke Rd., Bombay 400014.
Project Engineers, 4, Laxmi Niwas, Bajaj Rd., Vile Parle West, Bombay 400058.
Rajesh Construction, Zendi Gate, 1887, Kabir House, A-Nagar, Ahmednager 414001.
Rajnikant & Co., 226/2nd Kumbharwada, Bombay 400004.
Rupchandani Construction Co., Block 699, Nr. Netaji School, Ulhasnagar 421001.
S. N. Shah & Co., 435, Hind Rajasthan Bldg., D. S. Phalke Rd., Bombay 400014.
S. Verman Construction, 330, Hind Rajasthan Bldg., D. S. Phalke Rd., Bombay 400014.
Shah Builders, 403, S. V. Patel Rd., Camp, Pune 411001.
Shah Construction Co. Ltd., Shah House, Shivsagar Estate, Dr. A. Besant Rd., Bombay 400018.
United Builders Pvt. Ltd., Manu Mansion, 16, Bhagatsingh Rd., Bombay 400001.
United Enterprises, 340, Hind Rajasthan Bldg., D. S. Phalke Rd., Bombay 400014.

Meghalaya

Stephens Belle & Co., Warjri Lodge, Malki, Shillong 793001.
Mallick Harbanslal & Co., Bends-Side, Rilbaugh, Shillong 793001.
Harcharan Singh & Co., Prof. Swell Rd., Nongthymmai, Shillong 793001.

Orissa

A. S. Sandhu & Co., Kachery Rd., Rourkela.
Calcutta Co. Ltd., P. O. Tapeng Quarry, Narangarh, 752001.
Shaligram Modi & Co., Modi Nivas, Rourkela.

Punjab

Mittal & Co., 13, Sadar Bazar, Jullundur Cantt. 144005.
Meher Singh & Sons, P. O. Khalsa College, Amritsar 143001.
Rajindranath Chopra, 55, Katra Sher Singh, Amritsar 143001.

Rajasthan

Chopra Ranka & Associates, 429/3, Raja Park, Jaipur 302001.
Dharampal & Co., MES Contractors, Scheme No. 2, Bungalow 406, Alwar 301001.
Gadhoke Construction Co., 4, Manu Marg, Alwar 301001.
Khelaram Raghunath Ram & Co., Shri Rd., Jodhpur 342001.
Moti Construction Co., Moti Bhavan, Neeti Marg, Ajmer 305001.
Uberoi & Associates, Jaipur 302001.

Tamil Nadu

Albis Engg. Co., 6, S. Mohammed Rd., Madras 600006.
Asian Engg. Co., 12, B. McNichollas Rd., Madras 600010.
B. Sundararaman & Co., 3rd Cross St., East Shenoy Nagar, Madras 600030.
City Builders, 19, Kanan St., Madras.
City Bldg. Syndicate Pvt. Ltd., 24, Kalakshetra Colony, Madras 600020.
E. I. D. Parry Ltd., Dara House, Box No. 12, Madras 600001.
East Coast Construction & Industrial, 1, Moores Rd., Madras 600006.

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from

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Engineers & Contractors

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Undertake Large-Scale Construction of
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EARTHWORK by MACHINES

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Building Dock, Repair Dock
and
Ancillary Structures
for
COCHIN SHIPYARD LIMITED

Eimco-K.C.P. Ltd., Ramakrishna Bldg., 38, Mount Rd., Madras 600002.
Engg. and Commercial Agencies, 4, Smith Rd., Madras 600002.
Engg. Enterprises, 4, Ganesh St., Madras 600006.
Essar Construction & Carriers Ltd., 306, T. Chetty St., Madras 600001.
G. & P. Construction Co., 39, Sullivan Garden Rd., Madras.
Ganpathy & Co., 175/1, Mount Rd., Madras 600002.
Gladston Lyall & Co., Ltd., Connemara Hotel Annexe, Madras 600002.
Jey Constructions, 46, Chamiers Rd., Madras 600002.
K. G. Lakshmipathi & Co., 6/24, Harrington Rd., Chetput, Madras 600031.
K. Ramani & Co., 40, Bajanai Kali St., Kodambakkam, Madras 600024.
K. Rungaswamy Naidu & Sons, P. O. Shri Ramakrishna Vidyalaya, Coimbatore Dist.
K. S. Venkatraman & Co. Pvt. Ltd., 5, Dr. Thomas Rd., T. Nagar, Madras 600017.
L.S.R. Constructions, 63, B. Kamdar Nagar, Madras.
Mahalakshmi Constructions, 25, E. Elliot Rd., Mylapore, Madras 600004.
M. Arunachalam & Co., 34, Lloyds Rd., Royapetah, Madras 600014.
Premier Engg. Co. Pvt. Ltd., 24, Kalakshetra Colony, Madras 600020.
Raghavan Veera & Sons, 7A, Bishop Vallers Ave., Mylapore, Madras 600004.
Raman Bros., 11, Vidyodaya, 1st Cross Rd., T. Nagar, Madras 600017.
Sanjaya Constructions, 10, First Cross Rd., Raja Annamalaipuram, Madras 600028.
Seetharam & Co., 42, North Mada St., Mylapore, Madras 600004.
Senthill Constructions, 8/1, Maharaj S. Rao Rd., Madras.
Simplex Concrete Piles (I) Pvt. Ltd., 17 C. Major Rd., Egmore, Madras 600008.
South India Structural Corpn. Ltd., 1050, Thiruvothiyur High Rd., Madras 600019.
Southern Engg. & Construction Co., 15, Westcott Rd., Madras 600014.
Srinivasa Construction Co., 19, B. Sriramanagar, North St., Madras.
Vairavan Constructions, 6-8th Trust Cross Rd., Madras 600028.
Wilson & Co. Pvt. Ltd., Chordia Mansions, 105A/2, Mount Rd., Madras 600002.

Uttar Pradesh

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Hindustan Construction Co. Ltd., Construction House, Ballard Estate, Bombay 400038.

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K. R. Irani & Co., 24-26, Dalal St., Bombay 400001.

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Killick Nixon Ltd., 31, Murzban Rd., Bombay 400001.

M. A. Botee, Anis Chambers, Carnac Rd., Bombay 400001.

M. M. Bilaney & Co., 140, Medows St., Bombay 400001.

Patel Engg. Co. Ltd., Jogeshwari Estate, S. Vivekanand Rd., Jogeshwari, Bombay 400060.

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Sewri Engg. Construction Co. Pvt. Ltd., Savoy Chambers, Wallace St., Bombay 400001.

Shah Construction Co. Ltd., 198, Churchgate Reclmn., J. Tata Rd., Bombay 400020.
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Kingsway Maternity Hospital, Hudson Lines, Kingsway, New Delhi 110009.

Krishna Nursing Home, 23, Khan Market, New Delhi 110003.

Lady Hardinge Medical College & Hospital, P. Kuin Rd., New Delhi 110001.

Lajpat Nagar Hospital, Laj Nagar, New Delhi 110024.

Leprosy Home, Taharpur, New Delhi 110032.

Majumdar Ayurvedic Clinic, H. Qazi, New Delhi 110006.

Moolchand Kharaitiram Hospital, Laj Nagar, New Delhi 110024.

Moti Nagar Hospital, Moti Nagar, New Delhi 110015.

Mrs. Girdhari Lal Maternity Hospital, J. L. Nehru Marg, New Delhi 110001.

Nature Cure Hospital, Jawahar Nagar, New Delhi 110007.

Navjeewan Clinic, 5/15, Ajmal Khan Rd., New Delhi 110005.

New Delhi Clinical Laboratory, E28 NDSE Part II, New Delhi 110049.

New Delhi Polyclinic, K35, Connaught Circus, New Delhi 110001.

New Delhi Tuberculosis Centre, J. L. Nehru Marg, New Delhi 110001.

Ortho Fracture Clinic, 13, N. Subash Marg, New Delhi 110006.

Orthopaedic & Trauma (Accident) Clinic, 71, Ring Rd., Laj Nagar III, New Delhi 110024.

Prem Hospital, Hari Masjid, Pahar Ganj, New Delhi 110055.

Puri Maternity & Nursing Home, 2/21, Roop Nagar, New Delhi 110007.

Rajasthan Surgical Nursing Home, Prabhat Market, New Delhi 110005.

Rajora Mission Hospital, 2906, S. R. Bazaar, Delhi 110006.

Rana Nursing Home, JI/165, Rajouri Garden, New Delhi 110027.

Safdarjang Hospital, Safdarjang, New Delhi 110016.

Sahi Hospital, Mathura Rd., J. Pura, New Delhi 110014.

Sanghi's Nursing Home, C26, Green Park Extn., New Delhi 110016.

Sant Parmanand Blind Relief Mission, 18, Alipur Rd., Delhi 110006.

Sehgal's Nursing Home, B21, Kailash Colony, New Delhi 110048.

Sethi Maternity Nursing Home, 74F, Kamla Nagar, New Delhi 110007.

Shroff's Charity Eye Hospital, Darya Ganj, Delhi 110006.

Shyam Lal Eye Hospital, Dina-ka-Talab, Malka Ganj, New Delhi 110007.

Silver Jubilee Tuberculosis Hospital, Kingsway Camp, New Delhi 110009.

Sir Gangaram Hospital, Raj Nagar, New Delhi 110060.

Sondhi Nursing Home, 82A, Kamla Nagar, New Delhi 110007.

Srivastava Nursing Home, 5/3, Roop Nagar, New Delhi 110007.

St. Stephen's Hospital, Tis Hazari, Delhi 110006.

Sunder Lal Jain Charitable Eye Hospital, 26, Darya Ganj, Sadar Bazar, Delhi 110006.

Swami Dayanand Hospital, Shahdara, New Delhi 110032.

Tilak Nagar Hospital, Tilak Nagar, New Delhi 110018.

Tirath Ram Shah Hospital & Nursing Home, Rajpur Rd., Delhi 110006.

Tuberculosis Hospital, Mehrauli, New Delhi 110030.

Verma Eye Clinic, 776C, Nr. Radhu Cinema, New Delhi 110032.

Veterinary Hospital, Qudsia Rd., Delhi 110006.

Veterinary Hospital, Tis Hazari, 110006.

Victoria Zanana Hospital, Darya Ganj, Delhi 110006.

Willingdon Hospital, New Delhi 110001.

Worsley's Maternity Home & Clinic, 58, Darya Ganj, Delhi 110006.

HOSPITALS—MADRAS

Arignar Anna Govt. Hosp. of Indigenous Medicine, Arumbakkam, Madras 600029.

E.S.I. Hospital, 37, Madhavakkam Tank Rd., Madras 600023.

Govt. Chest Inst. & T.B. Demo. & Trg. Centre, Spur Tank Rd., Madras 600031.

Govt. General Hospital, L. G. Nagar Rd., Madras 600002.

Govt. Hospital for Women & Children, Egmore, Madras 600008.

Govt. Kasturba Gandhi Hospital for Women & Children, Madras 600005.

Govt. Kilpaulk Medical College & Hosp., P.H. Rd., Madras 600010.

Govt. Royapettah Hospital, Madras 600014.

Govt. T.B. Sanatorium, Tambaram, Madras 400047.

Govt. Thiruvoteswarar T.B. Hospital, Konnur High Rd., Otteri, Madras 600012.

Inst. of Child Health & Hosp. for Children, Halls Rd., Madras 600008.

Raja Sir Ramaswamy Mudaliar's Lying-In Hospital, Kamraj Rd., Madras 600013.

Silver Jubilee Children's Clinic, 1, Jeenis Rd., Madras 600015.

Stanley Hospital, Old Jail St., Madras 600001.

Tamil Nadu Govt. Ophthalmic Hospital, Egmore, Madras 600008.

Tuberculosis & Chemotherapy Centre, Spur Tank Rd., Madras 600031.

HOTELS

(See also Chapter on "Tourists' Guide").

Agra (Uttar Pradesh)
Grand Hotel, 137, Station Rd.
Hotel Clarks Shiraz, 54, Taj Rd.
Lauries Hotel, M. Gandhi Rd.
U.P. Govt. Tourist Bungalow, Opp. Raja-ki-Mandi Rly. Station.

Ahmedabad (Gujarat)
Cama Hotel, Khanpur Rd.
Hotel Alankar, Opp. Rly. Station.
Nataraj Hotel, Ashram Rd.

Ahmednagar (Maharashtra)
Ashoka Tourist Hotel, King's Rd.

Allahabad (Uttar Pradesh)
Barnetts Hotel, 14, M. Gandhi Road.

Almora (Uttar Pradesh)
Govt. Circuit House.

Ambala Cantt. (Punjab)
Standard Hotel, Railway Rd.

Amritsar (Punjab)
Hotel Airlines, Cooper Rd.
Mrs. Bhandari's Guest House, 10 Cantonment.

Aurangabad (Maharashtra)
Aurangabad Hotel.

Baroda (See Vadodara)

Bangalore (Karnataka)
Airlines Hotel, 4, Madras Bank Rd.
Bombay Anand Bhavan Hotel, Chickpet.
Bombay Anand Bhavan Hotel, 1, Old Poor House Rd.
Chamundi Hotel Pvt. Ltd., The Palace.
Hotel Bangalore International, 2-A, 2-B, Crescent Rd., High Grounds.
Hotel Broadway, 12, Kempe Gowda Rd.
Hotel Kamadhenu, Trinity Circle, M. Gandhi Rd.
Madras Woodlands Hotel, 5, Sampangy Tank Rd.
Palace Hotel, 3, Ali Askar Rd.
Shilton Hotel, St. Mark's Rd.
Swiss Cottage, 33, Race Course Rd.
Victoria Hotel, 20/21, Residency Rd.

Belgaum (Karnataka)
Hotel Brandavan, Maruji Lane Corner.

Bhopal (Madhya Pradesh)
Circuit House and M.L.A.'s Rest House.
Pagoda Hotel, Hamidia Rd.

Bhubaneshwar (Orissa)
State Guest House.
Traveller's Lodge.

Bijapur (Karnataka)
Traveller's Lodge.

Bombay (Maharashtra)
Ambassador Hotel, Churchgate Extn.
Grand Hotel, Ballard Estate.

Hotel Bombay International, Marine Drive.
Hotel Ceasars Palace, 313, Linking Rd., Khar.
Hotel Horizon, Juhu Beach.
Hotel Natraj, 135, N. Subash Rd.
Oberoi Sheraton, Nariman Point.
Ritz Hotel, 199, Churchgate Reclamation.
Shalimar Hotel, Cumballa Hill.
Sun-n-Sand, 39, Juhu Beach.
Taj Mahal Hotel, Apollo Bunder.
West End Hotel, 45, Marine Lines.

Calcutta (West Bengal)
Astoria Hotel, 6/2/3, Sudder St.
Carlton Hotel, 2 Chowringhee.
Fairlawn Hotel, 13-A, Sudder St.
Grand Hotel, 15, Chowringhee.
Great Eastern Hotel, 1, 2 & 3, Old Court House St.
Hotel Hindustan International, 235/1, Acharya J. C. Bose Rd.
Hotel Majestic, 4C, Madan St.
Hotel Minerva, 11, Ganesh Chandra Ave.
Hotel Ru-Deen Pvt. Ltd., 21B, Loudon St.
Hotel West End, 25 Waterloo St.
Lytton Hotel, 14, Sudder St.
New Central Hotel, 90, Chittaranjan Ave.
New Kelinworth Hotel, 1 & 2, Little Russel St.
Park Hotel, 17-Park Lane.
Ritz Continental Hotels Ltd., 182/2, Chowringhee.
Sagar Hotel, 11, Waterloo St.
Spences Hotel Pvt. Ltd., 4, Wellesley Place.
Stockman Hotel Pvt. Ltd., 12, Park St.

Cape Comorin or Kanya Kumari (Tamil Nadu)
Kerala House.

Chandigarh
Dak Bungalow.
Hotel Oberoi, Mount View, Sector 10.

Cochin (Kerala)
Casino Hotel, Willingdon Island.
Grand Hotel, M. Gandhi Rd., Ernakulam.
International Hotel, M. Gandhi Rd., Ernakulam.
Sea Lord Hotel, Shanmugham Rd., Ernakulam.

Coimbatore (Tamil Nadu)
Hotel Alankar, Sivaswamy Rd., Ramnagar.
Hotel Guru, 16/54, Raja St.

Cuttack (Orissa)
Circuit House.
Cuttack Hotel, Near Rly. Stn.
Eastern Hotel.

Dalhousie (Himachal Pradesh)
Aroma-in-Claire's Hotel.
Grand View Hotel.

Darjeeling (West Bengal)
Central Hotel, Robertson Rd.
Oberoi Mount Everest, 15, Gandhi Rd.
Windamere Hotel, Observatory Hill.

Dehradun (Uttar Pradesh)
Hotel Kwality, 19, Rajpur Rd.
Hotel Price, Hardware Rd.

Delhi
Ashoka Hotel, 50-B, Chanakyapuri.
Claridges Hotel, 12, Aurangzeb Rd.
Hotel Imperial, Janpath.
Hotel Janpath, Janpath.
Hotel Oberoi Intercontinental, Wellesley Rd.
Hotel Oberoi Maidens, 7, Alipur Rd.
Hotel Rajdoot, Mathura Rd.
Lodi Hotel, Lala Lajpat Rai Marg.
Nirula's Hotel, L Block, Connaught Circus.

Faridabad (Haryana)
Holiday Inn.

Gauhati (Assam)
Happy Lodge.

Gaya (Bihar)
Traveller's Lodge, Bodh Gaya.

Goa
Goa Woodlands Hotel, M. L. Furtado Rd., Margao.
Hotel Mandovi, Panaji.
Hotel Zuari, Vasco Da Gama.
Tourist Hostel, Panaji.

Gopalpur on Sea (Orissa)
Palm Beach Hotel.

Gulmarg (Kashmir)
Dak Bungalow.
Hotel Highlands Park.
Nedous's Hotel.

Gwalior (Madhya Pradesh)
Hotel Gujri Mahal, High Court Lane, Lashkar.
Usha Kiron Palace Hotel, Jai Vilas Palace.

Hyderabad-Secunderabad (Andhra Pradesh)
Percy's Hotel, Sardar Patel Rd.
Ritz Hotel, Hill Fort Palace.
Rock Castle Hotel, Jubilee Hills.
Sagar Mahal, Osmansagar.
Visranthi, Osmansagar.

Imphal (Manipur)
Hotel Manipur.

Indore (Madhya Pradesh)
Central Hotel, 27, M. Gandhi Rd.
Hotel Jahaz Mahal, 5, R. Tagore Marg.
Lantern Hotel, North Tukoganj.

Jabalpur (Madhya Pradesh)
Ashok Hotel, Wright Town.
Jackson's Hotel, Civil Lines.
Pagoda Hotel, 313, Nepier Town.

Jaipur (Rajasthan)
Hotel Khetri House.
Jai Mahal Palace Hotel, Civil Lines.
Kaiser-i-Hind Hotel, Tourist Palace.
LMB Hotel, Johari Bazar.
Rajasthan State Hotel, Mirza Ismail Rd., Khass Kothi.
Rambagh Palace.

Jamshedpur (Bihar)
Tisco Hotel, 7B Rd.

Kalimpong (West Bengal)
Tourist Lodge.

Kangra Valley (Himachal Pradesh)
Civil Rest House.

Kanpur (Uttar Pradesh)
Berkeley Hotel, Civil Lines.
Sarvashri Meghdoot Hotels, Behari Lal Bldg., 17/3B, The Mall.

Katrain (Himachal Pradesh)
Riverview Guest House.

Khajuraho (Madhya Pradesh)
Circuit House.
Tourist Bungalow
Traveller's Lodge.

Kodai Kanal (Tamil Nadu)
Carlton Hotel.
Highway Traveller's Bungalow.
Holiday Home.
Laughing Waters Guest House.

Konarak (Orissa)
Traveller's Lodge.

Kulu Valley (Himachal Pradesh)
Calvert Lodge.
Civil Rest House.
Forest Rest House.
Hotel May Flower.
Traveller's Lodge.

Lucknow (Uttar Pradesh)
Carlton Hotel, Shahnajaf Rd.
Hotel Gulmarg, Amin-ud-daula Park.

Ludhiana (Punjab)
Gulmor Hotel, Ferozpur Rd.
Hotel Shiraz, Ferozpur Rd.

Madras (Tamil Nadu)
Connemara Hotel, Binny's Rd.
Hotel Claridges, 14, Thambuswamy Rd.
Hotel Imperial, 3, Whannels Rd.
Hotel Victoria, Egmore.
Tourist Home, 5, G. Irwin Rd.
Woodlands Hotel, 1/23, E. Elliots Rd.

Mahableshwar (Maharashtra)
Fredrick's Hotel.
Race View Hotel.
Ritz Hotel, Wilson Point Rd.

Manali (Himachal Pradesh)
Orchards Guest House.

Mangalore (Karnataka)
Hotel Annella, Hampankatta.
Moti Mahal, Falnir Rd.

Manipal (Karnataka)
Valley View International Health Club.

Matheran (Maharashtra)
Divadkar's Hotel, Opp. Rly Stn.
Lords Central Hotel.
Rugby Hotel.

Mount Abu (Rajasthan)
Bikaner Palace Hotel.

Mussoorie (Uttar Pradesh)
Connaught Castle Hotel, The Mall.
Hakman's Grand Hotel, The Mall.
Hotel Roan-Oke.
Savoy Hotel.
Sylverton Hotel, Kulri Bazar.

Mysore
Hotel Krishnaraj Sagar, Krishnaraj Sagar.
Hotel Metropole, J. Laxmibai Rd.

Nagpur (Maharashtra)
Hotel Shyam, Malviya Rd., Sitabaldi.
Mount Hotel, Commercial Rd.
Needo's Hotel & Restaurant, Sangam Bridge, Sitabaldi.

Naini Tal (Uttar Pradesh)
Ardewell Camp.
Belvedere Hotel.
Brookhill Camp.
Grand Hotel.
Langham House.
Log Cabin, Cheena Peak.
Naini Tal Club.
Swiss Hotel.
Tourist Home.

Nasik (Maharashtra)
Green View Hotel, Trimbak Rd.
Hotel Mazda & Cafe, Agra Rd.

Ootacamund (Tamil Nadu)
Hotel Dasaprakash.
Savoy Hotel.
Tourist Bungalow.

Pahalgam (Kashmir)
Dak Bungalow.

Patna (Bihar)
Hotel Natraj, Ashok Raj Path.
Hotel Republic, Exhibition Rd.
New Agarwal Hotel, Station Rd.
Palace Hotel, Gandhi Maidan.

Pondicherry
Aurobindo Ghose Ashram.
Continental, Beach Rd.
Grand Hotel d' Europe, rue Suffren.

Pune (Maharashtra)
Hotel Amir, 15-A, Connaught Rd.
Hotel Blue Diamond, 11, Koregaon Rd.
Dreamland Hotel, 14, Connaught Rd.
Hotel Europa, 4, Koregaon Rd.
Hotel Gulmohr, 15-A/1, Connaught Rd.
Hotel Pearl, Opp. Balgandhan Rangamandir, J. M. Rd.
Hotel Shreyas, 124/B, Apte Rd.
Ritz Hotel, 6, Connaught Rd.
Wellesley Hotel, 12-A, Connaught Rd.

Puri (Orissa)
Circuit House.
Forest Rest House.
P.W.D. Dak Bungalow.
South Eastern Railway Hotel.

Ranchi (Bihar)
Hotel Yuvraj.

Roorkee (Uttar Pradesh)
Polaris Hotel, Bar & Restaurant.

Sanchi (Madhya Pradesh)
Buddhist Guest House.
Circuit House.
P.W.D. Rest House.
Tourist Bungalow.

Shillong (Assam)
Circuit House & Inspection Bungalow.
Pinewood Hotel.

Shivpuri (Madhya Pradesh)
Circuit House.
Dak Bungalow.
Shivpuri Hotel.

Simla (Himachal Pradesh)
Himland Hotel, Circular Rd.
Oberoi Cecil, The Mall.
Oberoi Clarkes, The Mall.

Srinagar (Kashmir)
Hotel Oberoi Palace.
Nedous's Hotel.

Surat (Gujarat)
Apsara, Lal Darwaja.
Hotel Ashima, Opp. Rly. Stn.

Trichur (Kerala)
Tourist Bungalow.

Trivandrum (Kerala)
Hotel Magnet.
Mascot Hotel.

Udaipur (Rajasthan)
Garden Hotel and Motel.
Lake Palace Hotel.
Laxmi Vilas Palace Hotel.
State Hotel.

Vadodara (Gujarat)
Green Hotel, Race Course Rd.
Hotel Utsav, Prof. Manekrao Rd.

Varanasi (Uttar Pradesh)
Clarks Hotel.
Parade Kothi.
The Mall.
Tourist Bungalow.

Vijayawada (Andhra Pradesh)
Hotel Manorama, Bunder Rd.
Hotel Nataraj, Congress Office Rd.
Sri Durga Bhavan, Near R.T.C. Bus Stand, Elluru Rd.
Sri Lakshmi Vilas Modern Cafe, Governorpet.
Welcome Hotel, Sumathi Bldgs., Besant Rd., Gandhi Nagar.

Visakhapatnam (Andhra Pradesh)
Hotel Apsara, 6/134, Waltair Main Rd.
Hotel Ooty, Dabagardens.
Hotel Poorna, Poorna Bldgs., Main Rd.
Marina Hotel, Beach Rd.
Palm Beach Hotel, Waltair.
Sun-n-Sea, Beach Rd.

INDUSTRIAL CONSULTANTS

Endesco Pvt. Ltd., Bombay Market Bldg., Tardeo Rd., Bombay 400034.
Ibcon Pvt. Ltd., Merchant Chambers, 41, New Marine Lines, Bombay 400020.

INSULATION CONTRACTORS

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Ideal Insulators, 308, Hind Rajasthan Bldg., D. Phalke Rd., Bombay 400014.
Llyod Insulations (India), 6, Middleton St., Calcutta 700016.

LIBRARIES

Andhra Pradesh

American Culture Centre Library, Saifabad, Hyderabad 500001.
American Studies Research Centre Library, Hyderabad 500007.
A. P. Agri. University Library, Dilkusha, Hyderabad 500004.
A. P. Library Association, Sri Sarvotham Bhawanam, Vijayawada 520002.

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Branch Library, Asifabad, Adilabad Dist.
Branch Library, Badvel, Cuddapah Dist.
Branch Library, Bhainsa, Balangir Dist.
Branch Library, Boath, Adilabad Dist.
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Branch Library, Guntakal 515801.
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Branch Library, Jagannaickpur, East Godavari Dist.
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Branch Library, Kodur, Rajampet Tq., Cuddapah Dist.
Branch Library, Kothapeta.
Branch Library, Kotteagudem, Khammam 507001.
Branch Library, Luksettipet, Adilabad Dist.
Branch Library, Madupallia, *via* Madhiru, Khammam Dist.
Branch Library, Malald, Warangal 506002.
Branch Library, Mancherial, Adilabad Dist.
Branch Library, Mudhol.
Branch Library, Mulung, Panlal Taluk.
Branch Library, Narsimapet, Warangal Dist.
Branch Library, Parkal, Kareemnagar Dist.
Branch Library, Pulivendla, Cuddapah Dist.
Branch Library, Rayachoti, Cuddapah Dist.
Branch Library, Sidhout Tq., Cuddapah Dist.
Branch Library, Sirpur, Warangal Dist.
Branch Library, Yadiki, Tadipatri Taluk.
Children's Library, Anantapur 515001.
Children's Library, Cuddapah 516001.
Children's Library, Kakinada 533001.
City Central Library, Hyderabad 500001.
Dist. Central Library, Anantapur 515001.
Dist. Central Library, Cuddapah 516001.
Dist. Central Library, Kakinada 533001.
Dist. Central Library, Khammam 507001.
Dist. Central Library, Nellore 524001.
Dist. Central Library, Sangareddy 502001.
Dist. Central Library, Ulkerabad.
Dist. Central Library, Vikarabad, Hyderabad Dist.
Dist. Central Library, Warangal 506002.
Government Arts College Library, Anantapur 515001.
Guntur Zilla Granthalaya, Sangham, Railpeta, Guntur Dist.
Kendriya Sanskrit Vidyapeeth Library, Tirupati 517501.
Local Library, Adilabad 504001.
Local Library, Anantapur 515001.
Local Library, Eluru 534001.
Local Library, Kareemnagar 505001.
Local Library, Khammam 507001.
Local Library, Krishna, Masulipatnam 521001.
Local Library, Mahaboobnagar 509001.
Local Library, Nalgonda 508001.
Local Library, Nizamabad 503001.
Local Library, Srikakulam 532001.
Local Library, Visakhapatnam 530001.
Local Library, Warangal 506002.
N. B. College Library, Hyderabad 500001.

Old Guntur Library, Association, Guntur 522001.
Osmania University Library, Hyderabad 500001.
Papuji Granthalayam, Hanamkonda 506001.
Post Graduate Centre Library, Anantapur 515001.
Public Library, Hyderabad 500001.
S. D. G. S. College Library, P.O. Hindupur 515201.
Shri Padmavathi Women's College Library, Tirupati 517501.
Sri Venkateswara University College of Engg. Library, Tirupati 517501.
Sri Venkateswara University Library, P.B. 17, Tirupati 517501.
State Central Library, Hyderabad 500001.
Technical Library, Bharat Heavy Electricals Ltd., Hyderabad 500032.
Vidyanagar Library, P.O. Gudur 521149.

Assam

Assam Library Association, Basistha Rd., P.O. Silpubhuri Gauhati 781001.
Dibrugarh University Library, Dibrugarh 786001.
Dist. Library, Gauhati 781001.
Dist. Library, Nowgong 782001.
Dist. Library, Sibragar, P.O. Jorhat 785001.
Gauhati University Library, Jalukbari, Gauhati 781001.
Regional Research Laboratory Library, Jorhat 785006.
State Central Library, Shillong 793001.

Bihar

A. N. Sinha Institute of Social Studies Library, Patna 800001.
Barauni Oil Refinery Library, Dist. Monghyr 811201.
Bhagalpur University Library, Bhagalpur 812001.
Bihar Rajya Pustakalaya Sangh, Sinha Library Rd., Patna 800001.
Central Technical Library, TELCO, Jamshedpur 831001.
Gaya College Library, Gaya 823001.
Hindi Library, Sohsarai, Patna 800001.
Irrigation and Rain Research Institute Library, Meghdut, Patna 800004.
Mannu Lal Magadh University Library, P.B. 30, Gaya 823001.
National Institute of Foundry and Forge Technology Library, Telephone Bhavan, P.O. Dhurwa, Ranchi 834001.
Nehru Pustakalaya and Natya Parishad, Nadiyani, P.O. Kuris, Nadia, Darbhanga.
Netrhat School Library, *via* Ranchi, Netrhat 834001.
Patna University Library, Patna 800001.
Rajindra Medical College Library, Ranchi 834001.
Ram Dayalu Singh College Library, Muzaffarpur 842001.
Ranchi Agricultural College Library, Kanke, Ranchi 834001.
Rannagiva Pandey College Library, Arer, Sahabad.
Regional Institute of Technology Library, Jamshedpur 831001.
Sinha Library, P.B. 62, Patna 831001.
Samaj Sadan Pustakalaya, Village Govindpur, P.O. Bangpur, *via* Barwalpur, Patna 831001.
Shri Ram Swarup Pustakalaya, Bhandurpur, P.O. Krowta, Patna 831001.
Shri Umakant Sarvajanik Pustakalaya, P.O. Shemrur Bhaya, Lohana Rd., Darbhanga.
Tata Iron & Steel Co. Ltd., Library, Jamshedpur 831001.
T. N. B. Law College Library, Bhagalpur 812001.

Chandigarh

Central State Library, Sector-17, Chandigarh 160017.
Govt. Basic High School Library, Sector 20D, Chandigarh 160017.
Govt. Girls Higher Secondary School Library, Sector 18, Chandigarh 160017.
Govt. Post-Graduate Basic Training College Library, Chandigarh 160017.
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State Central Library, Sector-17, Chandigarh 160071.

Delhi

All India Institute of Medical Sciences Library, Ansari Nagar, New Delhi 110016.
American Libraries Book Procurement Centre, Sheila Theatre Bldg., New Delhi 110001.
American Library, U.S.I.S. 24, Curzon Rd., New Delhi 110001.
British Council Library, All India Fine Art and Craft Society Bldg., New Delhi.
Central Library, D.M.C. Kashmere Gate, Old Hindu College Bldg., Delhi 110006.
Central Road Research Institute Library, New Delhi.
Central Secretariat Library, North Block, New Delhi.
Central Water & Power Commission Library, West Block No. 1, Wing No. 3, R. K. Puram, New Delhi 110022.
Civil Aviation Dept. Library, R. K. Puram, East Block Level IV, New Delhi 110022.
Council of Scientific & Industrial Research Library, Rafi Marg, New Delhi 110022.
Delhi Public Library, S. P. Mukherjee Marg, Delhi 110006.
Delhi University Library, University Bldg., Delhi 110007.
Director General of Security Office Library, Block V East, Level II, R. K. Puram, New Delhi 110022.
Directorate of Economics and Statistics Office Library, Ministry of Food & Agriculture, Krishi Bhawan, New Delhi.
Directorate General of Employment & Training Office Library, Shram Shakti Bhawan, Rafi Marg, New Delhi.
F.A.O. of the United Nations Library, 1, Ring Rd., New Delhi 110012.
Federation of Indian Chambers of Commerce & Industry Library, New Delhi 110001.
Govt. Library, Najafgarh, New Delhi 110015.
Govt. of India Publications, Civil Lines, Old Secretariat, Delhi.
Hans Raj College Library, Delhi 110007.
Hindu College Library, Delhi 110007.
Indian Agricultural Research Institute Library, New Delhi 110012.
Indian Council for Cultural Relations Library, Azad Bhawan, New Delhi 110001.
Indian Council of Agricultural Research Library, Krishi Bhawan, New Delhi 110001.
Indian Council of World Affairs Library, Sapru House, Barakhamba Rd., New Delhi.
Indian Institute of Technology Library, Hauz Khas, New Delhi 110029.
Indian Investment Centre Library, N.I. Bldg., Parliament St., New Delhi 110001.
Indian Law Institute Library, Bhagwandas Rd., New Delhi.
Indian P & T Department Library, Parliament St., New Delhi 110001.

I.N.S.D.O.C. Library, Hillside Rd., New Delhi 110012.

Indian School of International Studies, Sapru House, New Delhi 110001.

Indian Standard Institute Library, Manak Bhawan, New Delhi.

Information & Documentation Centre Library, Documentation Division, Metcalf House, Delhi 110006.

Institute of Audio Visual Library, Indraprastha Estate, New Delhi.

Institute of Economic Growth Library, University Enclave, Delhi 110007.

Institute of Engineers Library, Delhi Centre, Bahadur Shah Zafar Marg, New Delhi.

Institute of Post-Graduate Evening Studies Library, University of Delhi, Delhi 110007.

Jama Rural Institute Library, Jamia Millia Islamia, P.O. Jamia Nagar, New Delhi 110025.

Lady Shri Ram College Library, Lajpat Nagar, New Delhi.

Lalit Kala Akademi, Rabindra Bhawan, New Delhi.

Marwari Public Library, Delhi 110006.

Mata Sundri College Library, Mata Sundri Rd., New Delhi.

Maulana Azad Medical College Library, Bahadur Shah Zaffar Marg, New Delhi.

Max Muller Bhavan Library, 3, Curzon Rd., New Delhi 110001.

Ministry of Commerce, Industry and Supply Library, Udyog Bhavan, New Delhi.

Ministry of Defence Library, South Block, 129-E, New Delhi.

Ministry of External Affairs Library, Patiala House, New Delhi 110001.

Ministry of Finance Library, Govt. of India, North Block, New Delhi 110001.

Ministry of Food and Agricultural Library, Krishi Bhavan, Rafi Marg, New Delhi 110001.

Ministry of Home Affairs Library, Department of Administrative Reforms, Sardar Patel Bhavan, Parliament St., New Delhi 110001.

Ministry of Labour and Employment Library, Shram Shakti Bhavan, Rafi Marg, New Delhi 110001.

Ministry of Steel & Heavy Engineering Library, Udyog Bhavan, Maulana Azad Rd., New Delhi 110011.

Ministry of Transport and Shipping Library, Transport Bhavan, 1, Parliament St., New Delhi 110001.

Modern School Library, Barakhamba Rd., New Delhi 110001.

Parliament Library, Parliament House, New Delhi 110001.

Planning Commission Library, Yojna Bhavan, New Delhi 110001.

Railway Board Library, Ministry of Railways, Rail Bhavan, New Delhi.

Ratan Tata Library, Delhi School of Economics, University of Delhi, Delhi 110007.

Registrar of Newspapers of India Office Library, Udyog Bhavan, New Delhi.

Research and Reference Division Library, Ministry of Information and Broadcasting, Akashwani Bhavan, New Delhi 110001.

Sahitya Akademi Library, 35, Bahadur Shah Zafar Marg, Rabindra Bhavan, New Delhi.

Shri Ram College of Commerce Library, Patel Marg, Delhi 110007.

Shivaji College Library, New Delhi.

Statistical Organisation Library, Sardar Patel Bhavan, New Delhi 110001.

UNESCO Library, Ring Rd., New Delhi.

University Grants Commission Library, New Delhi.

U.S.I.S. Bhavalpur House, New Delhi.

Vallabhbhai Patel Chest Institute Library, University of Delhi, Delhi 110007.

Women's College Library, Timarpur, Delhi 110007.

Women's Polytechnic Library, Kashmere Gate, Delhi 110006.

Goa, Daman & Diu

Central Library, Government of Goa, Daman & Diu, Panaji 403001.

College of Engineering Library, C/o Govt. Polytechnic, Panaji 403001.

Gujarat

Ahmedabad Textile Industries Research Association Library, Nawrangpura, Ahmedabad 380009.

B. M. Institute Library, Ahmedabad.

Central Library, Bank Rd., P.B. 15, Vadodara 390001.

D. G. Shikshan Mahavidyalaya Library, Aliabada, Jamnagar Dist.

District Library, Rajkot 360001.

Gandhi Samiti Library, Bhavnagar 364001.

Gujarat Ayurvedic University Library, A. K. Jama Bldg., Hospital Rd., Jamnagar 361001.

Gujarat University Hostel Library, B-Block, Ahmedabad 380009.

Gujarat University Library, Ahmedabad.

H. K. Arts College Library, Ahmedabad 380009.

Indian Institute of Management Library, Vastrapur, Ahmedabad.

Jeewan Shanti, 50-A, Swastic Society, P.O. Nawrangpura, Ahmedabad.

National Photo Documentation Centre Library, Block No. 7, Dhanji Bhai Estate, Mission Rd., Ahmedabad 380001.

R. G. T. College Library, Porbandar.

Sainik School Library, P.O. Balachadi, Jamnagar Dist.

Sardar Patel University Library, Vallabh Vidya Nagar, Kaira Dist.

Saurashtra University Library, Dharampur Utaro, Kavi Nanalal Rd., Rajkot 360001.

Sheth Maneklal Jethabhai Pustakalaya, Ellis Bridge, Ahmedabad.

Shri Dayanand Free Reading Room & Library, Ranjit Rd., Jamnagar 361001.

Shri Dayaram Free Reading Room & Library, Ranjit Rd., Jamnagar 361001.

Smt. Hansa Mehta Library, M.S. University of Baroda, Station Rd., Vadodara 390001.

South Gujarat University Library, Surat 395001.

University of Baroda Library, Vadodara 390001.

Haryana

Govt. College Library, Rohtak 124001.

Kurukshetra University Library, Kurukshetra.

Mukund Lal National College Library, Yamuna Bazar, Ambala 133001.

Punjab Agricultural University Library, Hissar 125001.

State Central Library, Staff Rd., Ambala City 133001.

Himachal Pradesh

Central Postal Research Institute Library, Simla 171001.
Central State Library, Solan.
Government Dist. Library, Dharamsala 176215.
Indian Institute of Advanced Studies Library, Rashtrapati Niwas, Simla 171005.
Punjab Agricultural University Library, Palampur 176061.

Jammu & Kashmir

Archaeological Survey of India Library, Frontier Circle, Srinagar 190001.
J. & K. University Library, Jammu Division, Jammu 180001.

Karnataka

Central Library, Dharwar 580001.
D.G.S. Govt. College Library, Chikmagalur 577101.
Indian Institute of Science Library, Bangalore 560012.
Karnatak Art College Library, Dharwar 580001.
Karnatak University Library, Chhola Mahabaleshwar, Dharwar 580003.
Methodist Girls High School, Kolar 563101.
Mysore University Library, Manaser Gangotri, Mysore 570001.
Regional College of Education Library, Mysore 570001.
Shri Ramakrishna Vidyasala Library, Mysore 570002.
State Central Library, Seshadri Iyer Memorial Hall, Cubbon Park, Bangalore 560020.
St. John's Medical College Library, St. Mary's Town, Bangalore 560005.
United Technical College Library, 17, Miller's Rd., Bangalore 550006.
United Theological College Library, 17, Miller's Rd., Bangalore 560006.
University of Agricultural Science Library, Hebbal, Bangalore 560024.
University of Bangalore Library, Bangalore 560001.

Kerala

American Culture Central Library, Trivandrum 695001.
Kerala Granthalaya Sangham, Trivandrum 695001.
Kerala University Library, Trivandrum 695001.
S. B. College Library, Changanacherry, Kottayam 686001.
Trivandrum Public Library, Trivandrum 695001.

Madhya Pradesh

A. E. C. Training College Centre Library, Pachmarhi.
Directorate of Panchayats and Social Welfare Library, Bhopal 462001.
Govt. Central Library, Gwalior 474001.
Govt. Engineering College Library, Rewa 486001.
Govt. Polytechnic Library, Jabalpur 482001.
Heavy Electricals (Ind.) Ltd. Library, Piplani, Bhopal 462001.
Indore General Library, 436, M.G. Marg, Indore 452001.
Indore Sambhag Pustakalaya Sangh, 11, Khaitipura Rd., Indore 452001.
Indore School of Social Work Library, Seminary Bunglow, Indore 452001.
Jawaharlal Nehru Krishi Vishwa Vidyalaya Library, P.B. 80, Krishi Nagar, Jabalpur 482001.
Jiwaji University Library, Gwalior 474001.
M. P. Education Deptt. Library, Bhopal 462001.
Maulana Azad College of Technology Library, Bhopal 462001.
R. A. K. College of Agriculture Library, Sehore.
Ravishankar University Library, Raipur 492001.
Regional College of Education Library, Shyamala Hills, Bhopal 462001.
University of Indore Library, University House, Indore 452001.
University Library, Jabalpur 482001.
University Library, University of Saugar, Saugar 470001.
Vikram University Maharaja Jiwaji Rao Pustakalaya, Ujjain 456001.
Veterinary College Library, Jabalpur 482001.

Maharashtra

Ahmednagar College Library, Ahmednagar 414001.
Asia Publishing House Pvt. Ltd. Library, Calicut St., Ballard Estate, Bombay 400038.
British Council Library, N. K. Mehta Institutional House, Backbay Recl., Churchgate, Bombay 400021.
Cotton Technology Research Laboratory Library, Indian Council of Agriculture Research, Adenwala Rd., Matunga, Bombay 400019.
Deccan College Library, Pune 411006.
Directorate of Publicity Office Library, Sachivalaya, Bombay 400032.
Federation of Publishers & Booksellers Association in India, C/o Book Centre Pvt. Ltd., 172, Naigaum Cross Rd., Dadar, Bombay 400014.
Fergusson College Library, Pune 411008.
Gujarat Society Library, Nehru Rd., Bombay 400057.
H. P. T. College Library, Nasik 422005.
Institute Library, Pune 411006.
Jayakar Library, Pune 411007.
Kirti College Library, Caddell Rd., Dadar, Bombay 400028.
Laxminarayan Institute of Technology Library, Nagpur 440001.
Maharashtra Rajya Granthalaya Sangh, Naigaum Cross Rd., Dadar, Bombay 400014.
Maharashtra Regional Library, 580/1, Sadashiv Peth, Pune 411002.
Marathwada University Library, Aurangabad 431001.
Mumbai Marathi Granth Sangrahalaya, 172, Naigaum Cross Rd., Dadar, Bombay 400014.
Nagpur Veterinary College Library, Seminary Hills, Nagpur 440001.
National Defence Academy Library, 248, Gunj Peth, Pune 411002.
National Rayon Corpn. Ltd., Library, P.O. Mohone, Thana, Dist.
Panel College Library, Dixit Rd., Vile Parle East, Bombay 400057.
Peoples Free Reading Room and Library, Dhobitalao, Bombay 400002.
Popular Book Depot Library, Dr. Bhadkamkar Rd., Bombay 400007.
Shivaji University Library, Kolhapur 416002.
S.N.D.T. Women's University Library, 1, N. Thackersey Rd., Bombay 400020.
Spicer Memorial Library, Aundu Rd., Ganeshkhind, Pune 411007.
Technical Library, National Rayon Corpn. Ltd., Mohone, Kalyan, Thana Dist.
University Library, Nagpur University, Nagpur 440001.

University Library, University of Bombay, Bombay 400023.
U.S.I.S. American Library, 16, Queen's Rd., Bombay 400020.

Orissa

Co-op. Training Centre Library, Gunjam.
State Information Centre Library, Bhubaneshwar 751012.
Utkal Library Association, P.O. Nayagarh, Puri Dist.
Utkal University Library, Bhubaneshwar 751001.

Punjab

Central Public Library, Patiala 147001.
Central Sainik School, Ferozepur 152001.
Government College Library, Nabha.
Khalsa College Library, Patiala 147001.
Mata Gurji College Library, Fategarh, Patiala 147001.
Municipal Pubilic Library, Purani Kotwali Chowk, Patiala 147001.
Public Library, Nabha.
Punjab Agricultural University, Ludhiana 141001.
Punjab Library Association, 233, Model Town, Jullundur City 144001.

Rajasthan

Banasthali Vidya Peeth Library, P.O. Banasthali Vidya Peeth.
Central Electronics Engineering Research Institute Library, Pilani.
Central Library, Birla Institute of Technology and Science, Pilani.
Divisional Library, Kota 324001.
Maharaja's Public Library, Jaipur 302001.
Nehru College of Education Library, Sangaria.
Rajasthan University Library, Jaipur 302001.
Regional College of Education Library, Pushkar Rd., Ajmer 305001.
Social Education Library, Dy. Director's Office, Bikaner 334001.
University Central Library, University of Udaipur, Ishwar Niwas Bldg., Udaipur 313001.

Tamil Nadu

Annamalai University Library, P.O. Annamalainagar.
Christian Medical College Library, Vellore 632001.
Connemara (State Central) Public Library, Egmore, Madras 600008.
Food Corporation of India Library, 1/144, Mount Rd., Madras 600006.
Indian Institute of Technology Library, Madras 600036.
Indian Standards Institution Library, Madras Branch Office, 54 General Patter's Rd., Madras 600002.
Madurai University Library, Madurai 625002.
United States Information Service Library, 158, Mount Rd., Madras 600002.
University of Madras Library, Madras 600005.

Tripura

Basic Training College Library, P.O. Panisagar, Tripura.

Uttar Pradesh

American Academy of Varanasi Library, Rewa Place, Varanasi 221001.
Agricultural Institute Library, Allahabad 211001.
Banaras Hindu University Library, Varanasi 221001.
Bareilly College Library, Bareilly 243001.
Bharat Mohan Free Public Library-cum-Reading Room, P.O. Bhagpat, Meerut 250001.
Dept. of Library Science, Agra College, Agra 282001.
Fertilizer Corpn. of India Ltd., Library, P.O. Fertilizer Factory, Gorakhpur 273001.
Forest Research Institute and College Library, P.O. New Forest, Dehra Dun 248001.
Gorakhpur University Library, Gorakhpur 273001.
Hindi Sahitya Sammelan, Allahabad 211001.
Institute of Engineering Library, River Bank Colony, Lucknow 226001.
Kashi Vidya Peeth Library, Varanasi 221001.
Kund Kund Jain Degree College, Khatauli, Muzaffarnagar 251001.
Lucknow University Library, Lucknow 226001.
Madan Mohan Malviya Engineering College Library, Gorakhpur 273001.
Maulana Azad Library, Aligarh Muslim University, Aligarh 202001.
Meerut University Library, Meerut 250001.
National Botanical Gardens Library, Lucknow 226001.
Purvotter Railway Kendriya Granthalaya, Gorakhpur 273001.
R. & T. Institute Oil and Natural Gas Commission Library, Kewalgarh, Dehra Dun 248001.
S. D. College Library, Muzaffarnagar 251001.
State Central Library, Uttar Pradesh, Allahabad 211001.
T. D. College Library, Jaunpur 222001.
U.S.I.S. Library, Lucknow 226001.
University Library, Roorkee.
U.P. Agricultural University Library, P.O. Pantnagar, Nainital 263001.
U.P. Library Association, 535, Neta Nagar, Triveni Marg, Allahabad 211001.
U.P. Vidhan Pustakalaya, Council House, Lucknow 226001.
Varanaseya Sanskrit Vishwavidyalaya Library, Varanasi 221001.

West Bengal

Anthropological Survey of India Library, Indian Museum, 27, Chowringhee Rd., Calcutta 700013.
Bangabasi College Library, 110/15, Silampur Rd., Dhakuria, Calcutta 700031.
Bengal Library Association, P-134, C.I.T. Scheme No. 52, Beohulal Rd., Entally, Calcutta 700014.
Botanical Survey of India Library, Office of the Dy. Director, P.O. Indian Botanical Garden, Botanical Garden, Howrah, Calcutta 700014.
Burdwan District Library, Burdwan 713101.
Calcutta Information Centre Library, 1/1, Lower Circular Rd., Calcutta 700020.
Calcutta University Library, Asutosh Bldg., Calcutta 700013.
Central Library, University of Burdwan, 713101.
Central Mechanical Engineering Research Institute Library, Durgapur 713209.
Central Reference Library, Belvedere, Calcutta 700027.
Damodar Valley Corpn. Library, Anderson House, Calcutta 700027.
Dist. Library, Rahara, P.O. Rahara, 24 Parganas.
Dist. Library, Tamluk, Midnapur 721101.
Geological Survey of India Library, 29, Chowringhee Rd., Calcutta 700013.
I. N. B. National Library, Belvedere, Calcutta 700027.

Indian Institute of Management Library, 56-A, B.T. Rd., Calcutta 700050.

Indian Institute of Technology Library, Kharagpur 721301.

Indian Museum Library, 27, Jawaharlal Nehru Rd., Calcutta 700013.

Indian Statistical Institute Library, 203, Barrackpur Trunk Rd., Calcutta 700025.

Jadavpur University Library, Calcutta 700032.

Krishnagar Women's College Library, Krishnagar, Nadia 741101.

Midnapur Dist. Library, Midnapur 721101.

Ramakrishna Mission Ashram, P.O. Sarisha, 24 Parganas.

Ramakrishna Mission Institute of Culture Library, Gole Park, Calcutta 700029.

Sainik School Library, Purulia, P.O. Nanguna 723101.

Sanskrit College Library, College St., Calcutta 700012.

State Central Library, Education Deptt., 56-A, B.T. Rd., Calcutta 700050.

Technical Information Centre for Chemical Ind., 7, Bruce St., 2nd Fl., Calcutta.

U.S.I.S. Library, Chowringhee Rd., Calcutta 700013.

University of Kalyani Library, Kalyani 741235.

University of North Bengal Library, Raja Ram Mohan Pur, Darjeeling 734101.

Vishwa Bharati University Library, P.O. Shanti Niketan, Birbhum.

West Bengal Secretariat Library, Home Deptt., Calcutta 700001.

Zoological Survey of India Library, 29, Jawaharlal Nehru Rd., Calcutta 700012.

MAILING SERVICE

Penpal Linkers, 24-B, The Mall, Amritsar 143001.

Direct Mail Service, Surya Mahal, 5, B. Bharucha Marg, Bombay 400001.

MANAGEMENT CONSULTANTS

(The bracketed alphabets next to the name indicate B — Business; E — Engineering; I — Industrial; L — Legal; M — Management; Ma — Marketing; T — Technical).

Delhi

Mahesh Chandra, (M), 50 Anandlok Colony, New Delhi 110049.

Gujarat

All India Industrial Consultants, 14, Lal Baug Society, Vadodara 390004.

Karnataka

COBIM Pvt. Ltd., (B.I.), 71, Nagvarpalyam, Off, Old Madras Rd., Bangalore 560016.

Dr. H. N. Nanjundiah, (M), "Sumana", 19, Mahant Layout, Bangalore 560019.

Management Consultants, 94, Wheeler Rd., Cookes Town, Bangalore 560005.

Management/Consultants Pvt. Ltd., (I.L.T.), 9/1, 1st Main V Block, Kumara Pk., West Bangalore 560020.

Management Consultants, (M), 1503 IV T, Jayanagar, Bangalore 560011.

Management & Industrial Consultants Pvt. Ltd., 57, 17th Cross, Malleswaram, Bangalore 560003.

Maharashtra

Almeco, (M.E.), Sambava Chambers, Sir P. Mehta Rd., Bombay 400001.

Anwar Divecha & Associates, (M. Ma.), 1113 Prasad Chambers, Swadeshi Mills Compound, Charni Rd., Bombay 400004.

BEAM Services, (B.E.M.), Colaba Chambers, Wodehouse Rd., Bombay 400005.

F. E. Da Costa & Associates, (M.I.), 10 Waterloo Mansions, Museum, Bombay 400001.

Gauba Consultants (Pvt.) Ltd., (T.E.I.M.), 507 Kakad Chambers, 132 Dr. A. Besant Rd., Bombay 400018.

Kirloskar Consultants Ltd., (I.T.M.), 917/19A Shivajinagar, Ferguson College Rd., Pune 411004.

Modern Management Counsel, (M.T.), Court Chambers, New Marine Lines, Bombay 400020.

Personnel and Productivity Services, (M), 148, M. Gandhi Rd., Bombay 400001.

P. K. Sathe, (M), 11-12 Ram Kunj, 366 Cadell Rd., Bombay 400028.

MARINE ENGINEERS

(See Under 'Shipbuilders and Ship Repairers' in this list.)

MUSEUMS

Andhra Pradesh

Andhra Kesari Yuvajana Samiti Museum (Reg.), Rajamundry 533102. East Godavari Dist. (Paintings and Photographs).

Andhra Medical College Museum, Dept. of Anatomy, Andhra Medical College, Visakhapatnam 530001. (Anthropology & Anatomy).

Archaeological Museum, Amravati, Guntur 522001. (Stupa slabs, Coping pieces and cross-bars, Inscriptions etc.).

Archaeological Museum, Kondapur. (Architectural fragments of Stupa slabs, Sculptures etc.).

Archaeological Museum, Nagarjunakonda. (Satavahana period antiquities consisting of Stone Sculptures, Pottery, Terracottas, Beads, Bangles, Coins, Iron objects etc.).

Salarjung Museum, Hyderabad 500002. (Paintings (Western, Indian), Textiles, Porcelain, Jade, Carpets, Manuscripts, Antique furniture, Ivory, Glass, Clocks, Bronze, Silver, Bidriware & Toys in the Children's Section).

State Archaeological Museum, Public Gardens, Hyderabad 500004. (Archaeology, Stone sculptures, Coins, Paintings & Costumes).

Arunachal Pradesh

Central Museum, Lachmiera, Shillong 793001. (Archaeology, Anthropology, Ethnology, Costumes).

Assam

Assam State Museum, Gauhati 781001. (Archaeology, Stone sculptures, Inscriptions, Paintings, Costumes, Ethnology).

Gauhati Medical College, Gauhati 781005. (Science, Medical, Anatomy).

Museum of Animal Husbandry and Veterinary Science, Assam Veterinary College, Gauhati 781022. (Veterinary Science).

Sibsagar College Museum, Sibsagar College, P.O. Joysagar Dist., Sibsagar 785640. (Archaeology, Costume, Ethnology, Science).

Bihar

Archaeological Museum, Bodhgaya, Gaya Dist. (Archaeology — Stone and bronze sculptures etc.).

Archaeological Museum, Nalanda, Patna Dist. (Archaeology — Stone and bronze sculptures).

Bihar Gandhi Smarak Sangrahalaya, North West Gandhi Ground, Patna 800001. (Personalia Museum of Gandhiji).

Bihar Tribal Welfare Research Institute, Morabadi Rd., Ranchi 834008. (Ethnology — the main purpose is to preserve material culture of the tribes of this State).

Gaya Museum, Gaya 823001. (Archaeology, Paintings, Costumes, Ethnology).

Patna Museum, Patna-Gaya Rd., Buddha Marg, Patna 800001. (Archaeology — Stone and bronze sculptures, Coins, Inscriptions, Art, Arms & Weapons, Ethnology, Tibetan & Nepalese).

State Chandradhari Museum. Darbhanga. (Multi-purpose).

Chandigarh

Government Museum & Art Gallery, Sector 10-C, Chandigarh 160017. (Miniature paintings, Sculptures including Gandhara sculptures and Modern art).

Delhi

Anthropology Department Museum, University of Delhi, Delhi 110007. (Anthropology — Cultural and Physical).

Archaeological Museum, Red Fort, Delhi 110006. (Historical Collections of Mughal period — Costumes, Arms, Coins, Jades, Astronomical objects and Miniature paintings).

Bhartiya Adim Jati Sevak Sangh Museum, Dr. Ambedkar Rd., New Delhi 110001. (Costumes and handicrafts of tribals).

Crafts Museum, Thapar House, 124, Janpath, New Delhi 110001. (Archaeology, Paintings, Costumes, Ethnology, Anthropology, and Crafts).

Gandhi Memorial Museum & Library, Rajghat, New Delhi 110001. (Photographs, Relics, Paintings, Sculptures of Gandhiji, Library & Archives).

International Dolls Museum, Nehru House, Bahadurshah Zafar Marg, New Delhi 110001. (Dolls from all over the world).

National Childrens Museum, Bal Bhavan, Kotla Rd., New Delhi 110001. (Dolls, Paintings, Photographs, etc.).

National Gallery of Modern Art, Jaipur House, New Delhi 110011. (Contemporary Paintings (from 1857 to date), Sculptures & Graphic Arts. Also paintings of Ravindranath Tagore and Amrita Shergil).

National Museum, Janpath, New Delhi 110011. (Prehistory, Proto-history, Sculptures, Bronzes, Copper plates, Coins, Miniature paintings, Arms, Arts, Pre-Columbian arts, Anthropology and Central Asian collections).

National Philatelic Museum, Dak Tar Bhavan, Sardar Square, Parliament St., New Delhi 110001. (Philately).

Nehru Memorial Museum, Teen Murti Marg, New Delhi 110001. (Personal belongings of Nehru & Library).

Tibet House Museum, 16, Jor Bagh, New Delhi 110001. (Tibetan sculptures, Paintings (Thankas), Ritual objects, Carpets etc.).

Gujarat

Darbar Hall Museum, Shilekhana Sakkar Bagh, Junagadh 362001. (Archaeology, Paintings, and Costumes).

Gandhi Smriti Museums, Gandhi Smriti, Bhavnagar 364001. (There are four museums under the care of Gandhi Smriti, all housed in one building. (*i*) Arts and Crafts Museum. Picturesque embroidery and Bead work of Saurashtra. Costumes, Ornaments, Wood Work, Clay objects, Antiquities from Valabin, Coins and Fossils from Piram island. (*ii*) Barton Museum. Fossils, Archaeology, Sculpture, Coins, Stones, Inscriptions, Copper plates, Manuscripts, Copies of Shilrot Wall paintings, Musical instruments, Brass utensils, Old locks, Arms, Artistic nutcrackers. (*iii*) Children's Museum. Relief map of Bhavnagar, Aquarium, Toys, Philatelic section, stuffed birds, reptiles and amphibians. (*iv*) Gandhi Museum. Photographs, collections of documents and personal relics, audio-visual material on Gandhiji).

Gujarat Museum Society, Culture Centre, Kocharab, Ahmedabad 380006. (Archaeology, Anthropology, Ethnology, Costumes, Paintings including N. C. Mehta Collection of miniatures, Science etc.).

Health Museum, Sayaji Bagh, Vadodara 390001. (Archaeology, Paintings, Costumes etc.).

Lady Wilson Museum, Dharampur, Valsad Dist. 396001. (Anthropology, Industrial Art and Natural History).

Museum & Picture Gallery, Sayaji Park, Vadodara 390005. (Indian Archaeology — Prehistoric, Proto-historic and Historic ; Indian Art — Ancient, medieval, modern ; Numismatic, Paintings, Asiatic and Egyptian collection, Greek, Roman, European Civilizations and Art, Ethnology, Geology, Zoology etc.).

Sardar V. Patel Museum, Sonifalia, Surat 395001. (Archaeology, Paintings & Costumes).

Shri Girdharbhai Children's Museum, Amreli Dist. 364601. (All round development of children).

Tribal Research & Training Institute, Gujarat Vidyapith, Ahmedabad 380014. (Anthropology).

Watson Museum, Jubilee Bagh, Rajkot 360001. (Archaeology, Anthropology, Costumes, Ethnology & Science).

Haryana

Haryana Prantiya Puratatva Sangrahalaya, P. O. Gurukul Jhajjar, Rohtak Dist. 124001. (Archaeology, Paintings, Costumes, Anthropology, Science, Geology, Numismatics, Sculpture, Craft and Manuscripts).

Himachal Pradesh

Bhuri Singh Museum, Chamba. (Archaeology, Anthropology, Costumes, Ethnology, Miniature Paintings).

Jammu & Kashmir

S.P.S. Museum, Lalmandi, Srinagar 190001. (Archaeology, Paintings, Costumes, Anthropology, Arts and Crafts, Minerals, Numismatics and Natural History).

Dogra Art Gallery, Jammu 180001. (Miniature paintings, specially Pahari).

Karnataka

Archaeological Museum, Bijapur 586101. Stone sculptures, Inscriptions, Manuscripts, Arms and Weapons, Chinaware, Wood-carvings, Carpets etc.).

Archaeological Museum, Halebid. (Stone sculptures, Architectural pieces of Hoysala period).

Archaeological Museum, Hampi. (Sculptures and architectural pieces belonging to the Vijayanagar period).

Museum of Art & Archaeology, Kannada Research Institute, Karnatak University, Dharwar 580003. (Archaeology, Epigraphy, Manuscripts, Sculptures, Numismatics, Paintings).

Visvesvaraya Industrial & Technological Museum, Kasturba Rd., Bangalore 560001. (History of Science & Technology, the latest developments by working models and exhibits).

Mysore Government Museum, Kasturba Rd., Bangalore 560001. (Multi-purpose).

Kerala

State Museum, Trivandrum 695001. (Sculptures — Metal, Wood, Other Wood Carving, Ivory work, Collection of Lamps and Musical instruments, Numismatics, Handicrafts and Paintings).

Natural History Museum. Dept. of Museums and Zoos, Trivandrum 695001. (Geology, Ethnology and Science).

State Museum, Trichur 680001. (Arts and Crafts, Woodcarvings, Natural History, Geology etc.).

Madhya Pradesh

Archaeological Museum, Khajuraho. (Archaeology — Stone sculptures from Khajuraho and vicinity).

Archaeological Museum, Sanchi, Raisen Dist. (Stone sculptures, Terracottas and other local finds).

Central Museum, Bombay Agra Rd., Indore 452001. (Archaeology and Paintings).

Central Archaeological Museum, Gujari Mahal, Fort, Gwalior 474001. (Stone sculptures, Terracottas, Bronzes and Miniature paintings).

District Archaeological Museum, Vidisha 464001. (Archaeology, Terracotta objects, Coins, Educational set of Harrappan Art, etc.).

Dhar District Museum, 12 Ootavad Darwaja, Dhar. (Mainly Archaeological).

District Museum Shivpuri, Ban Ganga Rd., Shivpuri. (30 stone images (Jain Tirthankars), 20 Harappan culture articles on exhibition. Rest in reserve collections).

Forest School Shivpuri, Shivpuri. (Forest products and Forestry, Ethnology).

Mahant Ghasi Dass Memorial Museum, Raipur 492001. (Archaeology, Paintings, Costumes, Anthropology and Natural History, Art and Crafts).

State Museum, Dhubela, Chhatarpur. (Archaeology, Paintings, Costumes).

Tulsi Sangrahalaya, Ramban, Satna 485001. (Local Archaeological finds and stone sculptures).

Maharashtra

Central Museum, Nagpur 440001. (Archaeology, Anthropology, Paintings, Geology, Natural History).

Deccan College Museum, Pune 411001. (Excavated materials from Nevasa, Jorwe, Nasik etc. and Maratha period objects).

Heras Institute of Indian History & Culture, St. Xavier's College, Bombay 400001. (Archaeology, Paintings, Sculpture, Iconography, Manuscripts & Rare books).

History Museum, Ahmednagar College, Ahmednagar 414001. (Archaeology, Paintings).

Magan Sangrahalaya, Maganwadi. P. O. Wardha 442001. (Only for Khadi & Village Industries).

Mahatma Phule Vastu Sangrahalaya, Ghole Rd., Pune 411001. (Archaeology, Agriculture, Anthropology, Costumes, Ethnology, Forestry, Industry, Paintings & Science).

Mani Bhavan Sangrahalaya, 19, Laburnum Rd., Gamdevi, Bombay 400007. (Personalia Museum of Gandhiji).

Prince of Wales Museum of Western India, Bombay 400023. (Archaeology, Art, Paintings, Costumes, Bronzes, Ivories, Porcelains, Jade, Natural History).

Raja Kelkar Museum, 1378 Shukrawarpeth, Natu Bagh, Pune 411001. (Archaeology, Anthropology, Ethnology, Costumes, Paintings).

Shri Bhavani Museum & Library, Aundh (Satara) Taluka Khatav. Satara Dist. 415001. (Archaeology, Paintings, Stone, Bronze statues, Sandalwood carvings and few textiles and a well-equipped Library).

Manipur

Manipur State Museum, Pologround, Imphal. (Anthropology, Archaeology, Ethnology, Costumes, Paintings. Zoology & Geology).

Orissa

Archaeological Museum, Konarak. Puri Dist. 752001. (Stone sculptures).

Orissa State Museum, Bhubaneshwar 751006. (Archaeology, Paintings, Costumes, Ethnology, Anthropology, Science, Manuscripts).

Punjab

State Museum, Patiala 147001. (Archaeology, Anthropology, Costumes, Paintings, Ethnology, Geology and Science).

Rajasthan

Archaeological Museum, Ahar. (Excavated material from the Chalcolithic site (1800 B.C. onwards) of Ahar, Sculptures and Bronzes).

Archæological Museum, Amber. (Sculptures and excavated material from Bairat, Sambhar, Rairh, Nagar etc., in Jaipur region).

Archaeological Museum, Jhalawar 326001. Sculptures. Inscriptions, Coins, Miniature paintings and Manuscripts).

Central Museum, Ramniwas Gardens, Jaipur 302004.

Central Museum, Institute of Technology & Science, Pilani (Paintings, Science & Technology).

Ganga Golden Jubilee Museum, Bikaner 334001. (Sculptures, Terracottas, Miniature paintings, Textiles, Arms and Decorative arts).

Government Museum, Alwar 301001. (Sculptures, Inscriptions, Arms, Miniature paintings and Decorative arts).

Maharaja of Jaipur Museum, City Palace, Jaipur 302002. (Miniature Paintings, Costumes, Arms & Armours, Textiles, Mughal carpets etc.).

Multipurpose Cultural Museum. (Sculptures, Miniature paintings, Ethnology, Anthropology, Educational etc.).

Museum of Saraswati Bhandar, Garh, Kotah 324001. (Paintings, Costumes, Arms & Manuscripts).

Rajputana Museum, Ajmer 305001. (Sculptures, Inscriptions, Coins, Paintings).

Rana Pratap Museum, Near Pichhola lake, Udaipur 313001. (Sculptures, Inscriptions, Coins, Paintings and local crafts).

Sardar Museum, Jodhpur 342001. (Paintings, Handicrafts, Textiles, Natural History).

State Museum, Bharatpur 321001. (Excavated material from Noh (1000 B.C. and onward), Sculptures, Inscriptions, Coins and Arms).

State Museum, Mandore, Jodhpur 342001. (Science, Natural History, Paintings & Gallery.)

State Museum, Mount Abu, Sirohi Dist. 307001. (Science, Paintings and Handicrafts).

Tamil Nadu

Fort St. George Museum, Madras 600001. (Paintings, Prints, Coins. Medals, Textiles. Porcelain Manuscripts etc. of early Indo-British history).

Gandhi Smarak Sangrahalaya, Tamukkam, Madurai 625013. Personalia Museum on Gandhiji *e.g.* Photographs, Relics, Manuscripts & Library).

Government Museum & National Art Gallery, Egmore, Madras 600008. (Archaeology Stone and Bronze Sculptures, Art, Anthropology, Numismatics, Zoology, Botany, Geology, Children's section & Philately).

Government Museum, T. S. No. 6169, Big St., Tirugokarnam, Puddukkottai-2, Trichy District 620001. (Archaeology, Paintings, Costumes, Ethnology Anthropology, Natural Sciences like Geology, Zoology and Botany).

Southern Forest Rangers College & Research Centre, P.O. R. S. Puram, Coimbatore 641002 (S. Rly). Forest Museum.

Tipu Sultan Museum, Summer Palace, Dariya-Doulat-Bagh, Seringapatam. (Objects connected with the history of Haidar Ali and Tipu Sultan and their contemporary history).

Uttar Pradesh

Allahabad Museum, Alfred Park, Allahabad 211001. (Stone and Bronze sculptures, Terracottas, Miniature paintings, Modern Indian paintings and Gifts of Pandit Jawaharlal Nehru).

Archaeological Museum, Dampier Park, Mathura 281001. (Stone sculptures—particularly of Kushana and Gupta periods of Mathura school—Terracottas, Bronze etc.).

Archaeological Museum, Sarnath, Varanasi 221001. (Stone and Bronze sculptures, Seals, Beads, Toys, Terracottas and Pottery).

Bharat Kala Bhavan, Benaras Hindu University, Varanasi 221005. (Gandhi, Philatelic, Architecture, Bronze, glassware, Arms, Roorich paintings, Jades, Jems, Ornaments, Modern art, Textiles, Coins, Miniature paintings, Terracottas, Sculptures, Nepal & Tibet Sections).

Maharaja Banaras Museum, Fort Ram Nagar, Varanasi 221001. (Stone sculptures, Textiles (Banaras brocades etc.), Arms, Manuscripts, Paintings, Decorative arts, Palanquins and Howdas etc.).

Motilal Nehru Bal Sangrahalaya, Motilal Nehru Marg, Charbagh, Lucknow 226001. (Exhibition and display according to the needs of the children).

Museum of Science & Culture, General Education Centre, Aligarh Muslim University, Aligarh 202001. (Science & Culture).

State Museum, Banarasibagh, Lucknow 226001. (Archaeology, Stone sculptures, Bronzes, Terracottas, Inscriptions, Anthropology, Paintings, Costumes, Ethnology & Natural History).

West Bengal

Asiatic Society of Bengal Museum, 1, Park St., Calcutta 700016. (Western paintings, Coins, Miniature paintings (Pala, Arabic, Persian etc.), Copper plates and Manuscripts).

Asutosh Museum of Indian Art, Centenary Bldg., Univ. of Calcutta, Calcutta 700012. (Archaeology, Art, Bengal Folk-Art, Paintings & Textiles).

Birla Academy of Art & Culture, 108-109, Southern Ave., Calcutta 700029. (Archaeology, Paintings, Costumes, Anthropology).

Birla Industrial & Technological Museum, 19A, Gurusaday Rd., Calcutta 700019. (Science).

Birla Planetarium & Astronomical Research Centre, 96, Chowranghee, Calcutta 700016. (Educational activities, Research problems and popularisation of Astronomy and allied fields).

Cultural Research Institute Museum, Scheduled Castes & Tribes Welfare Deptt. New Secretariat Bldgs., Block-B, 1, Hastings St., Calcutta 700001. (Ethnology & Anthropology).

Gandhi Smarak Sangrahalaya 14, Riverside Rd. Barrackpore, 24 Parganas, Relics, Replicas, Manuscripts, Photographs & Library).

Government Industrial and Commercial Museum, 45, Ganesh Chandra Ave., Calcutta 700013. (Industry and Commerce including folk art and handicrafts).

Indian Museum, 27, Jawaharlal Nehru Rd., Calcutta 700013. (Art, Bharhut, Gandhara and Pala Sculptures etc. Archaeology, Anthropology, Geology and Economic Botany).

Kala Bhavan, Visva Bharati University, Shantiniketan. (Fine Arts and Handicrafts.)

Rabindra Sadan, Tagore Memorial Museum, Shantiniketan. (Personalia Museum : Materials connected with the life and works of Rabindranath Tagore mainly consisting of Manuscripts, Paintings, Photographs, Voice records, Costumes, Books, Journals etc.).

State Archaeological Gallery, 33, Chittaranjan Ave., Calcutta 700013. (Pre- and Proto-historic excavated material, Terracottas, Pala Stone Sculptures, Bronzes, Wood-carvings, Textiles, etc.).

Victoria Memorial, 1, Queensway, Calcutta 700016. (Museum of Modern Indian History ; Historical paintings (Oil paintings, water colour, Late Mogul paintings etc.) Statues of Historical personages, Archival objects, Manuscripts, Arms & Armours).

NAVAL ARCHITECTS

(See under 'Shipbuilders, Ship Repairers' in this list).

PACKERS

Calcutta Packing Co., 5/2, Tiljala Rd., Calcutta 700046.

International Packers and Movers, Dhan Nur, Sir P. Mehta Rd., Bombay 400001.

Packers (India) Co., 34/38, Hamam St., Bombay 400001.

Packart, New Empire Ind. Estate, Kondivita Rd., Block A2, Off Andheri-Kurla Rd., Andheri (E), Bombay 400069.

Sam Storage and Packing Corpn., 5, Graham Rd., B. Estate, Bombay 400038.

PAINTING & DECORATING CONTRACTORS

A. A. Nayak & Co., Jobanputra Compound, Nana Chowk, Bombay 400007.

Color Coats and Contrast Pvt. Ltd., 232, Dr. D. Naoroji Rd., Bombay 400001.

Kapadia Bros., 81, Abdul Rehman St., Bombay 400003.

PATENTS & TRADE MARK ATTORNEYS

Balakrishnan V., 21, Cenotaph Rd., Madras 600018.

Calcutta Trade Mark Co., 236, Chandni Chowk, Delhi 110006.

Cantwell & Co., 28, Ezra Mansions, Calcutta 700001.

Datta T. P. & Sons, P. B. 6106, Bombay 400005.

DePenning & DePenning, 10, Govt. Place East, Calcutta 700001.

L. R. Swami, 96-A, Mount Road, Madras 600018.

L. S. Davar & Co., D-24, Defence Colony, Link Rd., New Delhi 110003.

Oriental Trade Marks Bureau, 3E/2, Jhandewalan Ext., New Delhi 110055.

R. K. Dewan & Co., 78, Podar Chambers, Bombay 400001.

Remfry & Son, Gresham Assn. House, Sir P. Mehta Rd., Bombay 400001.

PEST CONTROL

Delhi

Anti Pest Operations, A-451, Defence Colony, New Delhi 110003.

Dr. Sarup's Pest Control Pvt. Ltd., N-4, Green Park Ext., New Delhi 110016.

Jardine Henderson Ltd., 49-50, Indra Palace, Connaught Place, New Delhi 110001.

Pest Control A. S. Goel, 8/12, Rajpur Rd., Delhi 110006.

Pest Control Advisers & Services, C-41, Greater Kailash I, New Delhi 110048.

Pest Control (India) Pvt. Ltd., F-47, NDSE Part I, Ring Rd., New Delhi 110049.

Pesticide Spray Co., C-336, Defence Colony, New Delhi 110003.

Pesticides India, E-84, South Ext. Part I, New Delhi 110049.

Gujarat

Pest Control Enterprises, 522/2, Saroj Mansion, Outside Panch Kuwa Gates, Ahmedabad 390002.

Maharashtra

Anglo Orient Insecticide Services, Agakhan Bldg., Dalal St., Bombay 400001.

Bombay Fumigation Co. Pvt. Ltd., 93, Bazar Gate St., Bombay 400001.

Chemafumes Pvt. Ltd., 17, Horniman Circle, Bombay 400001.

Elite Corpn., Lentin Chambers, 36 Dalal St., Bombay 400001.

Filcco Pvt. Ltd., BPT Plot No. 52, Sewri Fort Rd., Sewri East, Bombay 400015.

Fumigation Ind. & Laboratory Chemicals Co. Pvt. Ltd., BPT Plot No. 52, Sewri Fort Rd., Bombay 400015.

International Insecticides, 168, Bank of Baroda Bldg., Palton Rd., Bombay 400001.

Hindustan Insecticides, 25 Bank St., Bombay 400001.

Panama Pest Control Pvt. Ltd., 38, C. Patel St., Bombay 400001.

Pest Chemco, 395E, D. Bhadkamkar Marg, Bombay 400004.

Pest Control, Commercial House, 87, Dr. A. Besant Rd., Worli Naka, Bombay 400018.

Pest Control & Plant Protection, 'Shiv Sadan', Gokhale Rd., Near Portuguese Church, Dadar, Bombay 400028.

Pest Control Ideal Services, 413, Commerce House, N. Master Rd., Bombay 400001.

Pest Control India Pvt. Ltd., Yusuf Bldg., M. Gandhi Rd., Bombay 400001.

Pestco Modern Service Botawala Bldg. 11/13 Horniman Circle, Bombay 400001.

Pesticides Corpn., 19/20, Hamam St., Bombay 400001.

Pestreat Services, F-2, Court Chambers, Bombay 400020.

Tamil Nadu

Pest Control (India) Pvt. Ltd., 38, Errabalu Chetty St., Madras 600001.

West Bengal

Calcutta Pesterd Pvt. Ltd., 40, Ekbalpore Rd., Calcutta 700023.

Mascot Insulations, 99/5/8A, Ballygunge Place, Calcutta 700019.

National Pest Control Services, 117, Lenin Sarani, Calcutta 700013.

Pest Control & Co., 25, Broad St., Calcutta 700019.

Pest Control India Pvt. Ltd., 10, Chowringhee Rd., Calcutta 700013.

Pest Killer Corpn., 6, G. Chandra Avenue, Calcutta 700013.

Popular Research & Co., 32, Judge's Court Rd., Calcutta 700027.

Universal Pest Control, 83, Chittaranjan Avenue, Calcutta 700012.

PRINTERS

Delhi

Batra Art Press, 12, S. Thana Rd., Delhi 110006.

Bright Printing Press, 1214-Ch. N. Singh St., Sadar Bazar, Delhi 110006.

Central Electric Press, 80-D, Kamla Nagar, Delhi 110007.

Chanana Printing House, 5058, Sirkiwallan, Hauz Qazi, Delhi 110006.

Crescent Printing Works Pvt. Ltd., 14/90, Connaught Circus, New Delhi 110001.

Delhi Press, Jhandewallan Estate, R. Jhansi Rd., New Delhi 110055.

Delhi Printers, Sedhumal Bldg., 21, Darya Ganj, Delhi 110006.

Diamond Offset Works Pvt. Ltd., 8-E, R. Jhansi Rd., Jhandewallan Estate, New Delhi 110055.

Dominion Press, 2, Gokhale Market, Mori Gate, Delhi 110006.

Ever Bright Printers, 5/5222, Krishna Nagar, Karol Bagh, New Delhi 110005.

Gemini Offset Press, 12-B, Prehlad Market, Karol Bagh, New Delhi 110005.

Grafikindia, 19, N. Subash Marg, Darya Ganj, Delhi 110006.

India Offset Press, A-1, Maya Puri, Ring Rd., New Delhi 110027.

Indian Art Press, Plot No. 6, Block A, Rewari Line, New Delhi 110006.

Indraprastha Press, 4, B. S. Zafar Marg, New Delhi 110001,

Kirpa Ram Engravers & Sons, Phoota Rd., Sadar Bazar. Delhi 110006.

Kuldip Press, East Park Rd., Model Basti, Delhi 110005.

Mehta Offset Works, 16, S. Thana Rd., Delhi 110006.

Nanesh Printing Press, 3618/9, Sudershan Market, Chawri Bazar, Delhi 110006.

Panchal Press, 66, Gokhale Market, Mori Gate, Delhi 110006.

Punjab Press, Bara Tooti, Sadar Bazar, Delhi 110006.

Raisina Press, 4, Chamellian Rd., Delhi 110006.

Rajesh Printing Press, 1, Aram Nagar, Qutab Rd., New Delhi 110001.

Rajhans Press, Rooi Mandi, Sadar Bazar, Delhi 110006.

R. K. Printers, 80-D, Kamla Nagar, Delhi 110007.

Seth Art Printers, 10657, Jhandewallan Rd., Nabi Karim, New Delhi 110055.

Shuchi Pvt. Ltd., I-E, R. Jhansi Rd., Jhandewallan Estate, New Delhi 110055.

Statesman Ltd., Connaught Circus, New Delhi 110001.

Swaran Printing Press, 4859, Bara Tooti, Sadar Bazar, Delhi 110006.

Tijarti Press, Pan Mandi, Sadar Bazar, Delhi 110006.

Maharashtra

Abhyudaya Printing Press, 219, Tardeo Rd., Bombay 400007.

Amalgamated Press, 41, Hamam St., Bombay 400001.

Amardip Printing Mills, 366/68, Kalbadevi Rd., Ibrahim Mansion, Bombay 400002.

Ashok Printing Works, 22A, Syed A. Brelvi Rd., Bombay 400001.

Ashok Silk Mills, 202, L. B. Shastri Marg, Ghatkopar, Bombay 400086.

Bharat Label Manufg. Co. 38/46, Nagdevi St., Bombay 400003.

Bishen Dyg. Ptg. & Wvg. Mills, 9/11, Jambool Wadi, Kalbadevi Rd., Bombay 400002.

Bombay Art Printers, Kurla-Andheri Rd., Bombay 400072.

Bombay Press, 15, Stone Lane, Homji St., Bombay 400001.

D. V. C. Enterprises, 367, A. Kalbadevi Rd., Bombay 400002.

Dhanesh Dyeing & Ptg. Works, Narayan Nagar, Agra Rd,, Ghatkopar, Bombay 400086.

Ellora Silk Mills Pvt. Ltd., Neelkanth, 98, N. Subash Rd., Bombay 400002.

Evergreen Textile Mills, Kamal Mills Comp., L. B. Shastri Marg, Vikhroli, Bombay 400079.

Fashion Prints Pvt. Ltd., Agra Rd., Bhandup, Bombay 400078.

Girish Dye Works, Agra Rd., Bhandup, Bombay 400078.

Harichand Textile Mills, Agra Rd., Vikhroli, Bombay 400079.

J. K. Prints, Mehra Estate, Vikhroli, Bombay 400079.

Kapoor Silk Mills, Gamdevi Rd., Bhandup, Bombay 400078.

Kohinoor Textile Ptg. Works, Agra Rd., Ghatkopar, Bombay 400077.

Maharani Prints, 10 Caves Rd., Meher Tiles Comp., Jogeshwari, Bombay 400060.

Mahesh Art Ptg. Works, Irani Wadi, S. Mody Rd., Kandivli West, Bombay 400067.

Modern Textile Rayon & Silk Mills Pvt. Ltd., Opp. 115 D. D. Chawl, Worli, Bombay 400018.

National Dyg. & Ptg. Works, 236, Kalbadevi Rd., Bombay 400002.

New Taj Dyg. & Ptg. Works, Sarvodaya Mills Comp., Tardeo, Bombay 400034.

Paragon Textile Mills, Globe Mills Passage, Worli, Bombay 400013.

Premier Textile Processors, Military Rd., Marol Naka, Andheri, Bombay 400059.

Raj Dyg. & Ptg. Works, Mahul Rd., Opp. Police Station, Chembur, Bombay 400074.

Shree Ganesh Dyg. & Ptg. Works, Bombay Mills Comp., Kalachowky Rd., Bombay 400033.

Shri Shakti Ptg. & Dyg. Works, Chakala St., Andheri East, Bombay 400069.

The Times of India Press, Dr. D. N. Rd., Bombay 400001.

Ujagar Textile Ind., Sunder Baug, Chembur, Bombay 400080.

Usha Prints (I) Pvt. Ltd., Mehra Estate, Vikhroli, Bombay 400079.

Vakil & Sons Pvt. Ltd., 18, Sprott Rd., Bombay 400001.

West Bengal

Anna Art Press Pvt. Ltd., 26, Dr. Suresh Sarkar Rd., Calcutta 700014.

Automatic Printers Pvt. Ltd., 49/1, S. N. Banerjee Rd., Calcutta 700014.

Baptist Mission Press, 41A, Lower Circular Rd., Calcutta 700016.

Bharat Printing & Publishing Co. Ltd., 128, Lower Circular Rd., Calcutta 700016.

Caxton & Co., 1B, A. Mukherjee Rd., Calcutta 700020.

Ciciki Ptg. & Binding Works Pvt. Ltd., 95/A, Garpar Rd., Calcutta 700009.

Display Printers, 16/3, Gariahata Rd., Calcutta 700019.

Dot Line & Print, 2/A, Oriyapara Lane, Calcutta 700014.

Eastern Ptg. House, 9, Dharamtola St., Calcutta 700013.

Eton Press Pvt. Ltd., 107, Grey St., Calcutta 700005.

Ganger Ptg. Co. Ltd., Shibpore, Howrah.

Graphic Machinery & Applied Pvt. Ltd., 3, Chittaranjan Ave., Calcutta 700003.

Headway Lithographic Co., P-253, C.I.T. Scheme No. 6, Calcutta 700054.

Hooghly Ptg. Co. Ltd., 41, Chowringhee Rd., Calcutta 700016.

Indian Press Pvt. Ltd., 93A, Dharamtola St., Calcutta 700013.

International Press, 46, B. B. Ganguly St., Calcutta 700012.

Jnanoday Press, 17, H. Khan Lane, Calcutta 700009.

Kohinoor Art Press, 3, Abdul Ali Row, Calcutta 700016.

K. P. Basu Printing Works, 11, M. Gossain Lane, Calcutta 700016.

Lal Chand Roy & Co. Pvt. Ltd., 7/1, Grant Lane, Calcutta 700012.

Limton Art Press, 148, Lower Chitpur Rd., Calcutta 700001.

Mary Art Press Pvt. Ltd., 90, S. Ghosh St., Calcutta 700009.

Metal Seamers & Printers Ltd., 81/3, H. Chatterjee St., Calcutta 700025.

National Printing Works Pvt. Ltd., 1, G. Babu Lane, Calcutta 700012.

N. K. Gossain & Co. Pvt. Ltd., 13/7, Ariff Rd., Calcutta 700004.

Prabartak Printing & Halftone Pvt. Ltd., 52/3, Bowbazar St., Calcutta 700012.

Process & Print Pvt. Ltd., 5, Blockman St., Calcutta 700013.

Rolls Print Co. Pvt. Ltd., 6, Chowringhee Rd., Calcutta 700013.

Ruby Press, 35, Swallow Lane, Calcutta 700001.

Star Printing Works, 30, S. Das Lane, Calcutta 700006.

Statesman Ltd., 4, Chowringhee Square, Calcutta 700001.

Tarun Press, 6, Wellington Square, Calcutta 700013.

Technical & General Press, 17, Crooked Lane, Calcutta 700001.

Usha Printing Works, 6/3, R. Majumdar St., Calcutta 700009.

Venus Printing Works, 52/7, Bowbazar St., Calcutta 700012.

Vivekananda Press Pvt. Ltd., 9, S. Das Lane, Calcutta 700009.

Young Printers, 12/1/3, Goabagan St., Calcutta 700006.

PRINTERS—LETTER PRESS

Ashok Printing Works, 22A, Syed A. Brelvi Rd., Bombay 400001.

Amalgamated Press, 41, Hamam St., Bombay 400001.

Bharat Label Manufg. Co., 38/46, Nagdevi St., Bombay 400003.

Bombay Art Printers, Kurla Andheri Rd., Bombay 400072.

Bombay Press, 15, Store Lane, Homji St., Bombay 400001.

Hansa Printers, 10-B, Shri Ram Ind. Estate, Wadala, Bombay 400031.

Rishon Printing Works, Kumpta St., Ballard Estate, Bombay 400038.

Sarvodaya Printers, 178/80, Dady Sheth Agiari Lane, Corner of Navi Wadi, Bombay 400002.

Swastik Printing Press, 228, Wadala, Udyog Bhavan, 8, Naigaum Cross Rd., Bombay 400031.

The Times of India Press,, Dr. D. N. Rd., Bombay 400001.

PRINTERS—LITHOGRAPHY

Abhyudaya Printing Press, 219, Tardeo Rd., Bombay 400007.

Bolton Fine Art Litho Works, 274, Tardeo Rd., Bombay 400007.

Bombay Fine Art Offset & Litho Works, 10, Sussex Rd., Veermata Jijabai Bhosale Udyan, Bombay 400027.

Eagle Lithographing Co. Pvt. Ltd., 26B, Christopher Rd., Entally, Calcutta 700046.

Headway Lithographic Co., P-253, C. I. T. Scheme No. 6, Calcutta 700054.

National Litho Works Pvt. Ltd., 608, B. Jagtap Rd., Bombay 400011.

National Lithographing & Printing Press, National Bldg. 1 & 2, Old Court House, Calcutta 700001.

N. M. Parekh & Co., Lablewalla, 32, Mogul Lane, Bombay 400016.

Premier Offset Printers, Swadeshi Mill Estate, Girgaum, Bombay 400004.

Shivraj Firm Art Litho Works, Subash Rd., Nagpur 440002.

Sun Lithographic Co., P. 20, C. I. T. Rd., Calcutta 700010.

PRINTERS—OFFSET

Arsons Photo Offset Printers, 2E/8, Jhandewalan Ext., New Delhi.

Bolton Fine Art Litho Works, 274, Tardeo Rd., Bombay 400007.

Bombay Art Printers, Kurla-Andheri Rd., Bombay 400072.

Friend's Printery, 191, Dimtimker Rd., Bombay 400008.

Parksons Printers, Ind. Estate, Lalbaug, Bombay 400012.

Pradeep Art Printery, 34, C. Patel St., Bombay 400001.

Printwell, Laxmi Mills Estate, Off Dr. E. Moses Rd., Mahalaxmi, Bombay 400011.

Publicity Printers, 7, Homji St., Bombay 400001.

Thapar & Thapar, 262, Shaheed Bhagat Singh Rd., Bombay 400001.

PRINTERS—SILK-SCREEN

Maharashtra

Amardip Printing Mills, 366/68, Kalbadevi Rd., Ibrahim Mansion, Bombay 400002.

Bishen Dyg., Ptg. & Wvg. Mills, 9/11, Jambool Wadi, Kalbadevi Rd., Bombay 400002.

Ellora Silk Mills (Pvt.) Ltd., 40/42, Ruby Chambers, Dhanji St., Bombay 400003.

Everest Dyg. & Ptg. Works, I. Patel Rd., Goregaon-East, Bombay 400063.

Fashion Prints Pvt. Ltd., Agra Rd., Bhandup, Bombay 400078.

Girish Textile Ind., Behind R. R. Paint Ind., Tank Rd., Bhandup, Bombay 400078.

Heena Dyg. & Ptg. Works, Sharda Estate, L. T. Rd., Borivli-West, Bombay 400092.

Indiana Prints, C/o Jivan Silk Mills, Andheri-Kurla Rd., Bombay 400070.

Johnson Dye Works, Irani Wadi, Veer H. K. Rd., Kandivli-West, Bombay 400067.

Jyoti Dyg. & Ptg. Works, Mody Estate, Agra Rd., Ghatkopar, Bombay 400086.

Khanna Dyg. & Ptg. Works, 38, Sonawala Estate, Goregaon-East, Bombay 400063.

Mansukh Dyg. & Ptg. Mills, Kanjur Village Rd., Kanjur-Bhandup, Bombay 400078.

New Shakti Dye Works Pvt. Ltd., Dr. Ambedkar Rd., Panch Pakhadi, Thana.

New Vinod Silk Mills Pvt. Ltd., Kasturchand Mills Estate, Dadar, Bombay 400028.

Pinko Dyg. & Ptg. Works, Pitamber Wadi, Mahim, Bombay 400016.

Radha Dyeing & Printing Mills, 149, Gamdevi Rd., Bombay 400078.

Textile Corpn. of India, (Div. Decorative Sales Corpn.), 103, Shiv Shakti Ind. Estate, L.B. Shastri Marg, Ghatkopar, Bombay 400086.

Universal Dyg. & Ptg. Works, Narayan Nagar, Agra Rd., Ghatkopar, Bombay 400086.

Usha Processors Pvt. Ltd., Mehra Estate, Vikhroli, Agra Rd., Bombay 400079.

Veena Prints, Lokmanya Tilak Rd., Sharda Estate, Borivli-East, Bombay 400092.

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National Roadways, Steel Chambers, Broach St., Bombay 400009.
National Roadways (Regd.,), 112-B, K. Naik Rd., Bombay 400009.
Nepal Carriers, 58-B, Steel Chambers, Broach St., Bombay 400009.
New General Trading & Transport Corpn., 66, D'Souza St., Bombay 400003.
New Hariyana Transport Co., 37, Issaji St., Bombay 400003.
Road Bird Pvt. Ltd., 76-80/3, Masjid Siding Rd., Bombay 400009.

Savani Transport Pvt. Ltd., Kasam Chambers, 163, P. D'Mello Rd., Bombay 400001.

All Over India

All India Tr. Carriers (Regd.), 31, Broach St., Bombay 400009.

Associated Traders & Engrs. Pvt. Ltd., Eldee Chambers, Broach St., D'Mello Rd., Bombay 400009.

Economic Transport Orgn., Economic House, 1st Flank Rd., Chinch Bunder Rd., Bombay 400009.

G. Shantilal Transport Co. 3, Cement Chawl, Katha Bazar, Bombay 400009.

Indian Roadways Corpn., Prestige Chambers, 127-B, Kalyan St., Bombay 400009.

International Express, 28, Eastern Chambers, 128A, Argyle Rd., Dana Bunder, Bombay 400009.

Jayco Roadlines, 47-48, Bhandari St., Bombay 400009.

M. B. T. (West), Chhada Bhavan, Masjid Siding Rd., Bombay 400009.

Munshi & Co., 84-C, Mohammedali Rd., Bombay 400003.

New Premier Transport Service, S. Siddique Rd., Bombay 400009.

Pal Goods Transport Co., 226, Bhandari St., Bombay 400003.

Patel Roadways Pvt. Ltd., 100, Chakla St., Bombay 400003.

Rekhi Roadlines Pvt. Ltd., 40-42, Shroff Bhuvan, 159, P. D'Mello Rd., Bombay 400001.

Road Transport Corpn., 44, Chakla St., Bombay 400003.

Shakeel Transport Service, 40/42, Ghagra Bldg., Tank Bunder, Mazagaon, Bombay 400010.

South Eastern Carriers, 19, Bhandari St., Bombay 400009.

South Eastern Roadways, Nooruddin Chambers, 87-B, Broach St., Bombay 400009.

Tatanagar Transport Corpn., Steel Chambers, Broach St., Bombay 400009.

Transport Corpn. of India Pvt. Ltd., Transport House, 128-B, Poona St., Bombay 400009.

TRANSPORT CONTRACTORS

Baxissing & Co., 5, P. D'Mello Rd., Bombay 400009.

Dave & Co., 5, P. D'Mello Rd., Bombay 400009.

G. S. Anand & Co., 365, Shivaji Nagar, Pune 411005.

G. Shantilal Transport Co., 3, Cement Chawl, Katha Bazar, Bombay 400009.

Reshamsingh & Co., 5, P. D'Mello Rd., Bombay 400009.

TRAVEL AGENCIES

List of some Travel Agencies in major cities approved by the Government of India with their telegraphic addresses within inverted commas:

Bombay

American Express International, Travel Division, 119, J. Tata Rd., Churchgate Recl., Bombay 400021 (Head Qrts.): "AMEXCO".

Asiatic Travel Service, 12, Murzban Rd., Bombay 40000 (Head Qrts): "AIRASIA".

Balmer Lawrie & Co. Ltd., 5, Graham Rd., Ballard Estate, Bombay 400038, (Branch): "BALMER".

Bathija Travel Pvt. Ltd., New Silk Bazar, 491 Kalbadevi Rd., Bombay 400002 (Head Qrts.): "TRAVELRITIA".

Blue Skies Pvt. Ltd., 28, K. Dubash Marg, Bombay 40000 (Head Qrts): "BLUEHORIZON".

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Bombay 400 009.

Phone: 339684

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314/319, Samuel Street, Bombay 400 003.
Phone: 326318.

OFFICES:

- DELHI: 11369, Jhandewalan Road, Nabi Karim, New Delhi 110055. Phone: 512900.
- FARIDABAD: 18/3, Chowk Ajroondha, Mathura Road, Faridabad (Haryana). Phone: 2657/4258.
- THANA: Solanki Plot, Express Highway (Near Murphy Radio), Thana. Phone: 594476.

Careways (I) Pvt. Ltd., Vashani Chambers, New Marine Lines, Bombay 400020 (Branch).

Cox & Kings (Agents) Ltd., Lloyds Bank Bldg., Dr. D. Naoroji Rd., Bombay 400001, (Head Qrts.): "COXSHIP".

Everett Travel Service, Fort House Annexe, 221, Dr. D. Naoroji Rd., Bombay 400001, (Branch): "TRAVERETT".

Freight Carriers Pvt. Ltd., 43 Tamarind Lane, Bombay 400001, (Head Qrts): "QUICKFREIT".

Hind Musafir Agency, Khorshed Bldg., Sir P. Mehta Rd., Bombay 400001, (Head Qrts.): "PRAVASI".

Indtravels, Neville House, Nicol Rd., Ballard Estate, Bombay 400038, (Head Qrts.): "AIRFREIGHT".

Mackinnons Travel Service, 4, S. Vallabhdas Marg, Bombay 400038, (Head Qrts.): "MACKINNONS".

Mercury Travels (India) Pvt. Ltd., 70 Forbes St., Fort, Bombay 400001, (Branch): "MERCTRAVEL".

Orient Express Co. Pvt., Ltd., UCO Bank Bldg., 359, Dr. D. Naoroji Rd., Bombay 400001, (Branch): "OREXPRESCO".

Patel Volkart Travel Service, 16, Graham Rd., Ballard Estate, Bombay 400038, (Head Qrts.): "ENGADINE".

Sanghi International Travels, 39-A, Hughes Rd., Bombay 400007, (Head Qrts.): "SANGHICAR".

Sita World Travel (India), Pvt. Ltd., Nataraj Hotel, N. Subash Rd., Bombay 400001, "SITATRAVEL".

SOTC Travel & Tours, SOTC Naoroji House, 44 Mint Rd., Bombay 400001, (Head Qrts.): "SINDORTOUR".

TCI, Chander Mukhi, Nariman Point, Bombay 400021, (Head Qrts.).

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Offices at : Calcutta, New Delhi, Madras, Hyderabad, Bangalore, Poona, Baroda, Madurai, Nagpur and Mangalore.

Thos. Cook & Son (Continental Overseas) Ltd., Cooks Bldg., Dr. D. Naoroji Rd., Bombay 400001, (Head Qrts.): "COUPON".

Trade-Wings (Pvt.) Ltd., 30, Rampart Rd., Fort, Bombay 400001, (Head Qrts.): "TRAVEL".

Travel Corpn. (India) Pvt. Ltd., 12, Rampart Rd., Fort, Bombay 400001, (Branch): "LEMUIR".

Vensimal Bassarmal & Bros., 521, Kalbadevi Rd., Bombay 400002, (Head Qrts.): "VENSIMAL".

Calcutta

American Express Co. Inc., 21, Old Court House St., Calcutta, (Branch): "AMEXCO".

Balmer Lawrie & Co. Ltd., 21, N. Subash Rd., Calcutta 700001, (Head Qrts.): "BALMER".

Everett Travel Service, 4, Govt. Place (N), Calcutta 700001, (Head Qrts.): "TRAVERETT".

Gladstone Lyall & Co. Ltd., 4, Fairlie Place, Calcutta 700001, (Head Qrts.): "GLADSWYLL".

James Waven & Co. (I) Ltd., 31, Chowringhee Rd., Calcutta 700016, (Head Qrts.): "PLANTERS".

Indian Air Travels Ltd., 28, Chittaranjan Ave., Calcutta 700012, (Head Qrts.): "SKYMASTER".

Mackinnon Mackenzie & Co. Pvt. Ltd., 16, Strand Rd., Calcutta 700001, (Branch): "MACKINNONS"

Mercury Travels (India) Pvt. Ltd., Oberoi Grand Hotel, Calcutta 700013, (Branch): "MERCTRAVEL".

Orchid Travels Pvt. Ltd., 56, Chowringhee Rd., Calcutta 700016, (Head Qrts.): "TRAVORCHID".

Orient Express Co. Pvt. Ltd., 1 & 2, Old Court House Corner, Calcutta, (Branch): "OREXPRESCO".

Panurge Co., 30B, Chowringhee Rd., Calcutta 700016, (Head Qrts.): "EGRUNAP".

Sita World Travel (India) Pvt. Ltd., 27B, Camac St., Calcutta 700016, (Branch): "SITATRAVEL".

Speedways International, 3, Chowringhee Square, Calcutta 700016, (Head Qrts.): "SPEEDWAYS".

Trade Wings (Calcutta) Pvt. Ltd., Spencer's Bldgs., 32, Chowringhee Rd., Calcutta 700016, (Head Qrts.): "TRAVELLING".

Travel Corpn. (India) Pvt. Ltd., 19B, Shakespeare Sarani, Calcutta 700017, (Branch): "TRAVELJENA".

Vensimal Bassarmal & Bros., Poddar Chambers, 18, Rabindra Sarani, Calcutta 700001, (Branch): "VENBASBRO".

Madras

Asian Travels (India) Pvt. Ltd., 1, Patullos Rd., Mount Rd., Madras 600002, (Head Qrts.): "WORLDTRAVEL".

Bharat Travel Service Pvt. Ltd., 314/315, L. Chetty St., Madras 600001, (Head Qrts.): "EXCURSION".

Careways (I) Pvt. Ltd., Kannammar Bldgs., 122, Mount Rd., Madras 600006, (Branch): "BONVOYAGE".

Mercury Travels (India) Pvt. Ltd., Mohan Mansion, 38C, Mount Rd., Madras 600006, (Branch): "MERCTRAVEL".

Orient Express Co. Pvt. Ltd., 35 Mount Rd., Madras, (Branch): "OREXPRESCO".

Ram Mohan & Co. Pvt. Ltd., 362, N. Subash Rd., Madras, (Head Qrts.): "GACANPAC".

Sita World Travel (I) Pvt. Ltd., Fagun Mansions, Commander-in-Chief Rd., Egmore, Madras 600008, (Branch): "SITATRAVEL".

Sherif Travel Pvt. Ltd., Second Line Beach, Madras 600001.

Thos. Cook & Son (Continental & Overseas), 4/5, First Line Beach, Madras 600001 : " COUPON ".

Trade-Wings (P) Ltd., Purushottam Bldgs., 193, Mount Rd., Madras, (Branch) : " TRAVELAGES ".

Travel Corpn. (I) Pvt. Ltd., " Fagun Mansion ", 19, Commander-in-Chief Rd., Madras 600008, (Branch) : " TRAVELLING ".

New Delhi

Ambassador Travels Pvt. Ltd., 60 Regal Bldg., New Delhi, (Head Qrts.) : " AMBTRAVEL ".

American Express International, Travel Division, Wenger House, Connaught Place, New Delhi 110001, (Branch) : " AMEXCO ".

Asiatic Travel Service, 1/90, Connaught Place, Opp.: Rivoli Cinema, New Delhi 110001, (Branch) : " AIR-ASIA ".

Careways Pvt. Ltd., 103/104, Akash Deep, 26-A, Barakhamba Rd., New Delhi 110001, (Head Qrts.): " CAREWAYS".

Cox & Kings (Agents) Ltd., Indra Palace, Connaught Circus, New Delhi 110001, (Branch) : " COXSHIP" .

Everett Travel Service, Prem House, 11C, Connaught Place, New Delhi 110001, (Branch) : " TRAVERETT ".

Govan Travels, E15, N.D.S.E., 11, New Delhi 110049, (Head Qrts.) : " GOVANTOURS ".

Indian Air Travels Ltd., 10-Jain Mandir Rd., New Delhi 110001, (Branch) : " CARAVELLE ".

Indtravels, Hotel Imperial, Janpath, New Delhi 110001, (Branch): " INDTRAVELS ".

Iyer & Son Pvt. Ltd., U.I. Life Bldg., F-Block, Connaught Place, New Delhi, (Head Qrts.) : " IYARSON ".

Mackinnons Travel Service, Bank of Baroda Bldg., 16, Parliament St., New Delhi 110001, (Branch) .

Mercury Travels, (India) Pvt. Ltd., Jeevan Tara Bldg., Parliament St., New Delhi 110001, (Branch) : " MERC-TRAVEL ".

Orient Express Co. Pvt. Ltd., 70, Janpath, New Delhi 110001, " OREXPRESCO ".

Oriental Travels Pvt. Ltd., Marina Hotel, Connaught Circus, New Delhi.

Saha & Rai Travels Pvt. Ltd., 9-A, Connaught Place, Central Rly, Middle Circle, New Delhi 110001, (Head Office) :" SAHRAITRAV ".

Speedways International Travels, M-87, Connaught Circus, New Delhi, (Branch) : " SPEEDWAYS ".

Sita World Travel (I) Pvt. Ltd., F12, Connaught Place, New Delhi 110001, (Head Qrts.) : " SITATRAVEL ".

SUTC Travel & Tours, No. 6, Himalaya House, 23, K. Gandhi Marg, New Delhi 110001.

Trade-Wings (Pvt.) Ltd., 60, Janpath, New Delhi, (Branch) " TRAVIT ".

Travel Corpn. (I) Pvt. Ltd., Jeena House, 50, Hanuman Rd., Connaught Place, New Delhi 110001, (Branch): " TRAVELJENA ".

Travel World Inc., Nirula's Hotel, L-Block, Connaught Circus, New Delhi 110001, (Head Qrts.) : " WORLD-TOUR."

TUBE-WELL DRILLERS

Alladin Virji Nathai, 1st Lane, Darukhana, Bombay 400010.

Bharat Water Works, Dr. R. Prasad Rd., Mulund, Bombay 400080.

Borewells, 25 B, Nobel Clambers, Parsi Bazaar St., Bombay 400001.

Drilling Corpn., C-3, Bhadran Nagar, Malad, Bombay 400064.

Hydro Carbide Drilling Co., 166, Salset Rd., Kalina, Santa Cruz East, Bombay 400029.

Jai Malhar International, Municipal Bldg., Block D/30, Agarwada, Sion, Bombay 400022.

Moon Water & Mineral Exploration Bureau, 'Parikshit', 59, Jawahar Nagar, Goregaon, Bombay 400062.

Tri Wel Cons, 76, Jail Rd., East, Bombay 400009.

VALUERS—CORPORATE

Bombay

Afzal H. Mitha, 22, Apollo St., Bombay 400001.

Barai Natvarlal, Lentin Chambers, Dalal St., Bombay 400001.

Dalal, 93, B. Samachar St., Bombay 400001.

Gregson, Batley & King, Chartered Bank Bldg., M. Gandhi Rd., Bombay 400001.

H. Ganjawala & Co., Bansilal Bldg., 11, Bruce St., Bombay 400001.

J. G. Bodhe, Dalal St., Bombay 400001.

R. S. Chetandas, 7, Ivanhoe, Bhonsale Marg, Bombay 400001.

Roshan H. Nanavati, 22, Apollo St., Bombay 400001.

S. K. Nadkarni, Ash Lane, Bombay 400001.

Shapoorjee N. Chandabhoy & Co., Advani Chambers, Sir P. Mehta Rd., Bombay 400001.

Delhi

Anant Singh, Brig., S79, Gr. Kailash, New Delhi 110048.

Andley R. N., G16, NDSE Market, Part I, New Delhi 110049.

Bahl, 11, Link Rd., J. Pura, Extn., New Delhi 110014.

Balraj Taneja, F60, Bhagat Singh Market, New Delhi 110001.

Bhatia R. D., 7/20, W. Patel Nagar, New Delhi 110008.

Bhojaraja, K8, Green Park Extn., New Delhi 110016.

G. D. Tewari, F68, Green Park, New Delhi 110016.

Geel Phool Chand, Dist. Courts Comp, Tis Hazari, New Delhi 110006.

Gupta, G48, Green Park, New Delhi 110016.

Hardit Singh, 24/75, Punjabi Bagh, New Delhi 110026.

Hardyal Verma, E13, G. Kailash, New Delhi 110048.

K. R. Kalra, E95, Gr. Kailash, New Delhi 110048.

M. L. Sood, S60, Panch Sheel Park, New Delhi 110017.

Manilal Bhatt, A2/22M, Safdarjung Extn., New Delhi 110016.

Mathur, 7/9, Darya Ganj, New Delhi 110006.

N. K. Kothari, 129, Sunder Nagar, New Delhi 110003.

R. D. Verma, 28, Barakhamba Rd., New Delhi 110001.

Ram Narain Singh, 41, Bunglow Rd., New Delhi 110007.

Vasudeva, C36, Rajouri Garden, New Delhi 110027.

Vijay Gupta, 6A, Telegraph Lane, New Delhi 110001.

CORPORATE GIANTS IN INDIA: 1973-74

(Public and Private Sectors)

Rank	Name of Company	Total assets (Rs. Million)	
1.	Hindustan Steel Ltd.	10,213	G
2.	Food Corpn. of India	6,359	G
3.	Bharat Heavy Electricals Ltd.	5,699	G
4.	Indian Oil Corpn. Ltd.	5,280	G
5.	Fertilizer Corpn. of India Ltd.	4,062	G
6.	Hindustan Aeronautics Ltd.	3,430	G
7.	Oil & Natural Gas Commission	3,236	G
8.	Shipping Corpn. of India Ltd.	2,699	G
9.	National Coal Devpt. Corpn. Ltd.	2,546	G
10.	Heavy Engg. Corpn. Ltd.	2,505	G
11.	Tata Iron & Steel Co. Ltd.	2,355	
12.	Air India	2,029	G
13.	Heavy Electricals (India) Ltd.	1,559	G
14.	Tata Engg. & Locomotive Co. Ltd.	1,545	
15.	Hindustan Copper Ltd.	1,529	G
16.	Indian Iron and Steel Co. Ltd.	1,488	
17.	Neyveli Lignite Corpn. Ltd.	1,452	G
18.	Scindia Steam Navigation Co. Ltd.	1,307	
19.	Associated Cement Cos. Ltd.	1,186	
20.	Fertilizers & Chemicals Travancore Ltd.	1,157	G
21.	Mazagon Docks Ltd.	975	G
22.	Indian Airlines	967	G
23.	Delhi Cloth & General Mills Co. Ltd.	953	
24.	National Minerals Devpt. Corpn. Ltd.	897	G
25.	Indian Aluminium Co. Ltd.	833	
26.	Great Eastern Shipping Co. Ltd.	829	
27.	Hindustan Motors Ltd.	788	
28.	Gujarat State Fertilizer Co. Ltd.	784	
29.	Madras Fertilizers Ltd.	782	G
30.	State Trading Corpn. of India Ltd.	747	G
31.	India Tobacco Co. Ltd.	734	
32.	Bharat Electronics Ltd.	715	G
33.	Maharashtra State Road Transport Corpn.	657	G
34.	Indian Drugs & Pharmaceuticals Ltd.	648	G
35.	Hindustan Lever Ltd.	641	
36.	Hindustan Machine Tools Ltd.	637	G
37.	Hindustan Aluminium Corpn. Ltd.	634	
38.	Calico Mills Ltd.	633	
39.	Durgapur Projects Ltd.	630	G
40.	Mysore Iron & Steel Ltd.	625	G
41.	Gwalior Rayon Silk Manufg. (Wvg.) Co. Ltd.	603	
42.	Minerals & Metals Trdg. Corpn. of India Ltd.	601	G
43.	Indian Explosives Ltd.	598	
44.	Zuari Agro Chemicals Ltd.	598	
45.	Madras Refineries Ltd.	588	G
46.	Voltas Ltd.	588	
47.	Calcutta Electric Supply Corpn. Ltd.	566	
48.	Indian Telephone Industries Ltd.	540	G
49.	Dunlop India Ltd.	529	
50.	Mining & Allied Machinery Corpn. Ltd.	522	G
51.	Bharat Earth Movers Ltd.	521	
52.	J. K. Synthetics Ltd.	512	
53.	National Organic Chemical Industries Ltd.	511	
54.	Hindustan Steel Works Const. Ltd.	501	G
55.	Century Spg. & Manufg. Co. Ltd.	494	
56.	Guest Keen Williams Ltd.	448	
57.	Jessop & Co.	439	
58.	Larsen & Toubro Ltd.	435	
59.	Union Carbide India Ltd.	432	
60.	Ballarpur Paper & Straw Board Mills Ltd.	420	
61.	Tata Power Co. Ltd.	424	
62.	Coromandal Fertilisers Ltd.	420	
63.	Philips India Ltd.	418	
64.	India Steamship Co. Ltd.	410	
65.	Garden Reach Workshops Ltd.	385	G
66.	East India Hotels Ltd.	383	
67.	Kamani Engg. Ltd.	378	
68.	Hindustan Shipyard Ltd.	374	G
69.	General Electric Co. of India Ltd.	373	
70.	Binny Ltd.	372	
71.	Hydro Carbons India Ltd.	367	G
72.	E. I. D. Parry Ltd.	360	
73.	Rallis India Ltd.	356	
74.	Cochin Refineries Ltd.	349	G
75.	Birla Jute Manufg. Co. Ltd.	345	
76.	Central Warehousing Corpn.	344	G
77.	Ahmedabad Electricity Co. Ltd.	338	
78.	Indian Tube Co. Ltd.	334	
79.	Orient Paper Mills Ltd.	333	
80.	Metal Box Co. of India Ltd.	328	
81.	Escorts Ltd.	326	
82.	Mahindra & Mahindra Ltd.	324	
83.	Bata Shoe Co. Pvt. Ltd.	317	
84.	Tata Oil Mills Co. Ltd.	316	
85.	Brooke Bond India Pvt. Ltd.	311	
86.	Standard Mills Co. Ltd.	310	
87.	Textile Machinery Corpn. Ltd.	308	
88.	Jiyajeerao Cotton Mills Ltd.	305	
89.	Premier Automobiles Ltd.	305	
90.	Bombay Suburban Electric Supply Ltd.	301	
91.	Mafatlal Fine Spg. & Manufg. Co. Ltd.	300	
92.	Mafatlal Industries	299	
93.	Kesoram Industrial Cotton Mills Ltd.	296	
94.	Ashok Leyland Ltd.	294	
95.	Engineering Construction Corpn. Ltd.	287	
96.	Mukand Iron and Steel Works Ltd.	286	
97.	Hindustan Zinc Ltd.	285	G
98.	Hindustan Petroleum Corpn. Ltd.	281	G
99.	Bombay Dyeing & Manufg. Co. Ltd.	274	
100.	Siemens India Ltd.	273	
101.	Bharat Heavy Plates & Vessels Ltd.	272	G

MINI CORPORATE GIANTS IN INDIA (PUBLIC AND PRIVATE SECTORS) : 1973-74

Rank	Name of Company	Total assets (Rs. Million)	
102.	Projects & Equip. Corpn. of India Ltd.	286	G
103.	Madura Mills Co. Ltd.	271	
104.	Hindustan Cables Ltd.	269	G
105.	Singareni Collieries	264	G
106.	Motor Industries Co. Ltd.	259	
107.	South India Shipping Corpn. Ltd.	256	
108.	Firestone India Pvt. Ltd.	251	
109.	NGEF Ltd.	250	G
110.	Swadeshi Cotton Mills Co. Ltd.	248	
111.	Crompton Greaves Ltd.	242	
112.	Andhra Pradesh Mining Corpn. Ltd.	241	G
113.	National Textile Corpn. Ltd.	241	G
114.	Tata Chemicals Ltd.	241	
115.	Kirloskar Oil Engines Ltd.	239	
116.	Baroda Rayon Corpn. Ltd.	238	
117.	Burmah-Shell	238	
118.	Godrej & Boyce Manufg. Co. Pvt. Ltd.	234	
119.	Modipon Ltd.	234	
120.	Andhra Valley Power Supply Co. Ltd.	232	
121.	Straw Products Ltd.	231	
122.	ACC — Vickers — Babcock Ltd.	230	
123.	Glaxo Laboratories (India) Ltd.	230	
124.	Hindustan Construction Co. Ltd.	227	
125.	International Tractors Co. of India Ltd.	226	
126.	Electronics Corpn. of India Ltd.	225	G
127.	South India Viscose Ltd.	225	
128.	Madras Aluminium Co. Ltd.	221	
129.	Rohtas Industries Ltd.	220	
130.	National Rayon Corpn. Ltd.	216	
131.	Chemicals & Fibres of India Ltd.	214	
132.	India Cements Ltd.	210	
133.	Central Inland Water Transport Corpn.	209	G
134.	Atul Products Ltd.	207	
135.	Nirlon Synthetics Fibres & Chemicals Ltd.	203	
136.	Hindustan Organic Chemicals Ltd.	201	G
137.	Lube India	201	
138.	Indian Cable Co. Ltd.	200	
139.	Shree Ambica Steam Navigation Co Ltd.	199	
140.	K.C.P. Ltd.	199	
141.	Walchandnagar Industries Ltd.	199	
142.	Polyolefins Industries Ltd.	199	
143.	Goodyear India Ltd.	198	
144.	Alkali & Chemicals Corpn. of India Ltd.	198	
145.	Indian Dairy Corpn.	195	G
146.	Indian Oxygen Ltd.	194	
147.	Renusagar Power Co. Ltd.	194	
148.	Pfizer Ltd.	193	
149.	Greaves Cotton & Co. Ltd.	188	
150.	Modi Spg. & Wvg. Mills Co. Ltd.	184	
151.	Tata Hydro-Electric Power Supply Co. Ltd.	181	
152.	Modi Industries Ltd.	180	
153.	Ceat Tyres of India Ltd.	179	
154.	Colour Chem. Ltd.	176	
155.	Andhra Pradesh Pulp & Paper Mills Ltd.	175	
156.	Indian Dyestuff Industries Ltd.	174	
157.	Mogul Line Ltd.	173	G
158.	Madras Rubber Factory Ltd.	172	
159.	Titaghur Paper Mills Co. Ltd.	172	
160.	British India Corpn. Ltd.	171	
161.	Kirloskar Bros. Ltd.	168	
162.	Ciba of India Ltd.	168	
163.	Golden Tobacco Co. Pvt. Ltd.	168	
164.	S. B. Joshi & Co.	167	
165.	Instrumentation Ltd.	166	
166.	Hindustan Sugar Mills Ltd.	161	
167.	Fort Gloster Industries Ltd.	160	
168.	Dempo Steamships Ltd.	158	
169.	Indian Organic Chemicals Ltd.	156	
170.	Shaw Wallace & Co. Ltd.	155	
171.	Mohan Meakin Breweries Ltd.	155	
172.	MacNeill and Barry Ltd.	155	
173.	Tamil Nadu Small Ind. Corpn. Ltd.	154	G
174.	Dhrangadhra Chemical Works Ltd.	153	
175.	Hindustan Photo Films Manufg. Co. Ltd.	153	G
176.	Gokak Patel & Volkart Ltd.	152	
177.	Simon Carves India Ltd.	152	
178.	Alembic Chemical Works Co. Ltd.	151	
179.	Godavari Sugar Mills Ltd.	149	
180.	National Newsprint & Paper Mills Ltd.	149	G
181.	Orissa Mining Corpn. Ltd.	148	G
182.	New Central Jute Mills Co. Ltd.	148	
183.	Automobile Products of India Ltd.	146	
184.	Central India Machinery Manufg. Co. Ltd.	145	
185.	Synthetics & Chemicals Ltd.	145	
186.	Bharat Steel Tubes Ltd.	145	
187.	Hindoostan Spg. & Wvg. Mills Ltd.	145	
188.	Tube Investments of India Ltd.	144	
189.	Jay Engg. Works Ltd.	144	
190.	Lucas TVS Ltd.	143	
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G = Government Companies.

FOREIGN AID TO INDIA

THE total external assistance (project, non-project and debt relief) committed to India during the year ending March 1974 was Rs. 11,720 million.

These commitments include Rs. 4,400 million from the soft-lending International Development Association (IDA) of the World Bank, Rs. 800 million from Czechoclovakia and the rest from member-countries of the consortium.

The loan agreements signed in this period included some commitments in advance earmarked for 1974-75 and subsequent years, while the large amount of IDA assistance covers part of the previous year's credits. There was no new United States aid beyond a debt relief of Rs. 230 million during 1973-74.

The gross aid utilisation in 1973-74 on the other hand was estimated at Rs. 7,122·4 million as against Rs. 6,660 million in 1972-73. The net aid (after debt servicing) was Rs. 1,590 million and Rs. 2,000 million in the last two years respectively.

For 1974-75, the gross aid receipts (utilisation) are estimated at Rs. 8,497·9 million but debt services are expected to be heavy.

The countrywise aid commitments in 1973-74 are as follows: IDA Rs. 4,400 million, World Bank Rs. 550 million, Canada Rs. 700 million, France Rs. 560 million, West-Germany Rs. 960 million, Japan Rs. 970 million, U.K. Rs. 1,650 million, USA Rs. 230 million, Sweden Rs. 320 million, The Netherlands Rs. 190 million, Italy Rs. 150 million, Belgium Rs. 50 million, Austria Rs. 2·21 million, Switzerland Rs. 170 million and Czechoslovakia Rs. 800 million.

Taking the Fourth Plan period as a whole (1969-74), the aid commitments totalled Rs. 41,730 million—Rs. 8,340 million a year on an average. The utilisation averaged at Rs. 780 million.

The net inflow of resources has been steadily declining because of the growing debt servicing.

FOREIGN EXCHANGE RESERVES

1960-61 : Rs. 3,040 million ; 1970-71 : Rs. 7,320 million; 1971-72: Rs. 8,490 million; 1972-73: Rs. 8,470 million; 1973-74 : N.A.

AID GIVING COUNTRIES

United States: The total amount received from the U.S. up to June 30, 1974 was 10,010·0 million dollars or, at the current rate of exchange 76,076·0 million rupees.

The break-up of this figure is as follows :—

Grants (not repayable) 2,205·4 million dollars; Loans repayable in dollars 3,431·2 million dollars; Loans repayable in rupees convertible into dollars at U.S. Government option 423·8 million dollars; Local currency repayments 3,371·9 million dollars (loans repayable in rupees or dollars at Government of India's option 3,150·7 million dollars; and Cooley Fund loans to private enterprises 221·2 million dollars) and amounts under P.L. 480 Title I agreement reserved for U.S. Government uses 577·7 million dollars.

The various U.S. Govt. programmes under which the aid funds are disbursed with the amounts sanctioned for each programme up to June 30,1974 are as follows.

Programme	Million Dollars	Rupees at Current rates (million)
1. USAID Missions Tech. Co-op. Programme:		
(*a*) Development grants (not repayable) ..	458·9	3,487·6
(*b*) Loans (repayable in rupees or dollars) ..	148·1	1,125·6
2. USAID development Loans:		
(*a*) Repayable in dollars..	2,674·1	20,323·1
(*b*) Repayable in rupees	502·3	3,817·5
3. P.L. 480, Title I (grants & loans repayable in Rs.) ..	4,500·6	36,204·5
4. P.L. 480, Title II (donations not repayable)	957·6	7,277·8
5. Emergency Flood & Famine Relief grants (not repayable)	5·5	41·8
6. Wheat Loan of 1951 (repayable in dollars) ..	242·3	1,841·5
7. Triangular Trade (repayable in Rs.)	5·8	44·1
8. U.S. Export-Import Bank loans (repayable in dollars)	514·8	3,912·5
Total	10,010·0	76,076·0

* It is estimated that P.L. 480 deposits under all sales agreements will total approximately Rs. 25,651·7 million (including Rs. 3,200·9 million of credit sales convertible into dollars).

Switzerland : Swiss development assistance is both multi-lateral and bilateral. 30 per cent of the grants for technical assistance and 50 per cent of the loans for financial aid are channeled through the U.N. specialized agencies like UNDP, FAO, WHO, UNICEF, etc. and through the World Bank, IDA, Asian Development Bank, etc.

Loans : Until 1973, the Swiss Government had provided transfer credits to the extent of 265 million Swiss francs and a development loan of 35 million francs (to meet the requirements of foreign exchange for the Obra-Sultanpur-Lucknow 400 kv. transmission scheme).

Grants : From 1961 until 31st December, 1973, the Swiss Government had sanctioned a total of 49 million Swiss francs for development grants to India. For 1973, the amount sanctioned was 7·7 million Swiss francs. This does not include relief or humanitarian assistance.

The main field of co-operation with India are cattle breeding and fodder development projects in Kerala and Punjab, agricultural resettlement schemes in Karnataka and Orissa, irrigation projects in Maharashtra and Karnataka, and assistance to a number of technical schools, agricultural training centres, colleges and hospitals.

United Kingdom : British aid to India has taken two major forms: Long-term loans granted through the Aid India Consortium since its formation in 1958; since 1965, these loans have been interest-free and repayable over 25 years with a seven-year grace period. The second type of assistance provided is in the form of grants through the Colombo Plan since its inception in 1951.

Financial Assistance : Following are details of loans extended during the Plan periods.

	£ million
1. Second Five-Year Plan	80·5
2. Third Five-Year Plan	181·5
3. During 1966-67	35·5
1967-68	31·0
1968-69	36·0
1969-70	47·0
1970-71	51·5
1971-72	54·5
1972-73	71·5
1973-74	73·0
Total	662·0

The annual British aid disbursement to India is currently about £ 69 million.

Major British Aided Projects

1. Durgapur Steel Plant.
2. Heavy Electricals (India) Ltd., Bhopal.
3. Security Paper Mill Project, Hoshangabad.
4. Oil India Ltd.
5. Fertiliser Plant, Namrup, Assam.
6. Sulphuric Acid Plant, Sindri, Bihar.
7. Shipbuilding agreements have recently been concluded whereby Britain will provide funds for the construction of two 75,000 tonne bulk carriers for the Shipping Corporation of India, one 75,000 tonne bulk carrier for the Scindia Steamship Company, and one 25,000 tonne products tanker for the Great Eastern Shipping Company.
8. Fertilisers : Britain has signed agreements to help finance the following fertiliser projects.

Indian Farmers Fertilizer Co-operatives Kandla/Kalol.
Southern Petrochemicals Corporation, Tuticorin.
Mangalore Fertilizer and Chemicals, Mangalore.

9. Petrochemicals — Britain has signed an agreement to finance the naphtha cracker plant of the Indian Petrochemicals Corporation, Vadodara.

Canada : Since 1951 Canada has extended Rs. 8,600 million ($1,100·6 million) of food and development assistance. Nearly 60 per cent was outright grants and most of the rest took the form of loans on the softest terms available: no interest or other charges, repayment over 50 years and a 10-year grace period. Canada ranks third after the United States and the United Kingdom in total bilateral net aid to this country (disbursements less repayments). Currently India is the biggest beneficiary of Canada's bilateral development assistance programme, with the 1973-74 budgeted figure being nearly Rs. 616 million of $77 million.

1973-74 Programme: A new development loan was signed in July of 1973 for approximately Rs. 377·5 million ($50 million) for the supply of industrial commodities and fertilizers through the years 1973, 74, 75. Funds from this loan would be used to purchase asbestos, lead, newsprint, nickel, rubber, sulphur, wood pulp, zinc and potash. In addition to this, a special loan for Rs. 75 million ($10 million) was signed to provide additional funds for the purchase of increased requirements of potash fertilizer by India. In the power sector, a loan was signed of just under $4 million to assist in financing additional turbine-generator combinations to complete the planned installed capacity of the Canadian assisted Kundah Hydro Electric Project in Tamil Nadu. This loan was accompanied by grants totalling $1·55 million to cover additional costs of equipment and services. Work also proceeded on the Canadian financed Idikki power development in Kerala. In October, 1973, the line of credit to the ONGC which was originally signed in 1971 was extended by an additional $6 million. During the year Canada also continued to finance training for miners and mine management of Hindustan Copper Limited at their Khetri and Kolihan mines in Rajasthan.

Australia : Australian bilateral aid to India from 1951–1974 totalled $A 86·3 million. This has been in the form of outright grants under the auspices of the Colombo Plan. It has consisted of commodities such as wheat, fertilisers, copper and milk powder and wool; capital equipment for development projects; and technical assistance. During this period Australia has provided a total of 1,362 fellowships for Indian nationals to undertake post-graduate and specialised studies. 118 Australian experts have worked in India also.

Upto June 30, 1974, Australian expenditure totalled $86·3 million (Rs. 1,001 million); *viz.* Emergency Food Aid $A 47·2 million; Economic Development $A 35·6 million; Technical Assistance $A 3·5 million.

West Germany : An agreement was signed for an united loan of Rs. 1,100 million during 1974-75. Almost half of it was earmarked for debt relief.

Netherlands : A general purpose credit for 1973-74 was granted for the amount of Rs. 152·55 million. The repayment will be over a period of 30 years with a grace period of eight years. Interest will be charged at the rate of 2·5 per cent.

It has also agreed to allocate an amount of 45 million guilders for special long-term projects.

Belgium : Belgium has offered an interest free loan of Belgium francs 275 million (about Rs. 50·8 million) for development assistance. The assistance is for the purchase of Belgian goods and services.

Denmark : India has signed a loan agreement with Denmark for a loan of Rs. 670 million. This amount will be utilised for the import of many items needed for the fertiliser, petro-chemical, rubber, electronics etc. industries.

Norway : has agreed to give India an aid of 742 million (41 million Kroner) for the development of fisheries, to promote family planning programmes, delivery of fertilisers and paper for education purposes.

Sweden : Sweden has committed a total assistance of Rs. 613·9 million (335 million Swedish Kroner) to India for 1974-75 and 1976-77. The bulk of the loan will be interest-free untied 50-year loan for financing imports from any part of the world. The agreement was signed on June 5, 1974.

FOREIGN INVESTMENT IN INDIA

BACKGROUND: After World War II, foreign enterprise came to consider India as a potential market, and not so much as a place for undertaking production activity. The processing units in India, hitherto, had been set up by the ruling country. After independence other countries also entered the Indian market with technical collaborations. India did not have much foreign exchange problem then. Due to the foreign exchange shortage in the fifties and sixties the capital transfers out of India became difficult. In spite of that, foreign investment continued to grow and brought in the much needed know-how as regards markets, technology etc., which is more important than capital.

Statistics : There are about 752 corporate bodies in India controlled by foreign enterprises (excluding 32 shipping and air companies). More than 540 are registered in foreign countries and have established places of business in India. These are registered as 'foreign companies', under Sec. 591 of the Companies Act. And nearly 223 corporate bodies are functioning as subsidiaries of foreign enterprises. The value of assets of these corporate bodies is now over Rs. 24,000 million against Rs. 80,000 million for the entire private corporate sector. The value of these undertakings aggregate roughly upto Rs. 25,000 million and contributes nearly 33 per cent of the total production of the entire private corporate sector.

Industry-wise Distribution

(Rs. million)

Industry	No. of Companies	Value of Assets
Agriculture and allied activities	129	2,453
Mining and Quarrying ..	13	387
Processing and Manufacturing	288	11,682
Construction and utilities ..	26	802
Commerce (Trade & Finance)	190	8,242
Transport, communication and storage	4	17
Community and Business services	83	517
Personnel and other services	19	55
Total	752	24,155

Country-wise Distribution : The total number of foreign companies (as defined in Section 591 of the Companies Act, 1956) in India as on 31st March, 1974 was 540. The countrywise distribution is given below :

United Kingdom 319, U.S.A. 88, Japan 21, West Germany 12, Pakistan 12, Switzerland 10, France 8, Canada 7, Hong Kong 8, Italy 5, Sweden 5, Netherland 6, Australia 3, Belgium 3, New Zealand 3, Panama 2, Yugoslavia 3, Bahama Island 2, Thailand 2, Sri Lanka 1, Kenya 1, Kuwait 1, Lebanon 2, Liberia 1, Luxembourg 1, Philippines 1, Singapore 2, Tanzania 1, Uganda 3, Iran 1, Nepal 2, Aden 1, Greece 1.

INVESTMENT AND REMITTANCES

Investments : Direct investment of foreign enterprise in corporate bodies in India which are under their effective control (excluding companies in which they have minority participation) is about Rs. 5,000 million, which is about 20 per cent of the aggregate value of their assets in India amounting to Rs. 24,000 million. Thus, nearly Rs. 19,000 million have been raised by the foreign enterprises in India from Indian sources. Out of this Rs. 1,000 million was by equity participation by Indian subscribers and Rs. 18,000 million were borrowed from banks, financial institutions, deposits from public and sundry credits.

Remittances: The total amount remitted by foreign firms out of India, profits, dividends, royalties, etc. rose from Rs. 763 million in 1969-70 to Rs. 992 million in 1970-71. The figures for the first nine months of 1971-72 were Rs. 638 million.

Profits remitted by the top nine foreign firms during 1971-72 are given below :

Malayalam Plantations (U.K.) Rs. 10,906,380 ; National and Grindlays Bank (U.K.) Rs. 9,088,493 ; First National City Bank (U.S.A.) Rs. 9,047,781 ; Coca-Cola Export Corpn. (U.S.A.) Rs. 6,057,512 ; American Express (U.S.A.) Rs. 3,656,555 ; Bank of America (U.S.A.) Rs. 3,524,165 ; Assam Frontier Tea Co. Calcutta (U.K.) Rs. 2,865,708 ; Cadbury Overseas (U.K.) Rs. 2,599,218 ; Chesebrough Ponds Inc. (U.S.A.) Rs. 2,268,283. EID Parry was the only foreign incorporated Company which made remittances on account of royalty and the amount remitted was Rs. 18,516.

IMPORT AND EXPORT TRADE

EXPORT Targets for 1974-75 : The export target for 1974–75 is Rs. 26,000 million. Exports (including for re-export) during 1973–74 amounted to Rs. 24,560 million. For the broad commodity groups the targets are as follows :

Agriculture and allied products : Rs. 6,050 million ; Tea : Rs. 1,700 million ; Marine products : Rs. 480 million ; All other products : Rs. 3,870 million ; Minerals : Rs. 2,030 million ; Iron ore : Rs. 1,550 million ; Other minerals : Rs. 480 million ; Manufactures : Rs. 10,100 million ; Cotton textiles and jute manufactures : Rs. 3,330 million ; Engineering goods including metals : Rs. 1,900 million ; All other manufactures : Rs. 4,870 million ; Other unspecified exports : Rs. 820 million.

Current Trade Figures : For the first four months of 1974–75 the overall exports amounted to Rs. 9,540 million. This was higher by Rs. 2,930 million or 44·5 per cent over the corresponding figure for 1973–74. The Fifth Plan target for exports is Rs. 78,900 million.

Trend of Exports : The biggest contributor to the rise of Rs. 2,930 million in exports, during the first four months of 1974–75, was sugar. Other items contributed for the export spurt were marine products, cashew kernels, spices, tea etc.

Despite an upward trend in export, the trade deficit had widened during 1974–75. Latest data indicated a deficit of Rs. 5,853·0 million during April/December 1974, compared to a deficit of Rs. 1,641·0 million during the same period in 1973.

Trend in Imports: Imports in the first four months of the financial year (1974–75) amounted to Rs. 10,760 million, an increase of Rs. 3,700 million over the corresponding figure last year. The import target fixed for the full year was Rs. 31,000 million.

Balance of Trade : The country's balance of payments position continues to be difficult in spite of a good performance on the export front as the prospects have been wiped out by steady increase in imports.

Note : For Export Houses, Export Banks, Export Credit and Guarantee Corp. Ltd., Export Firms, Export Inspection Council of India, see General Index under "E".

I. STERLING AREA

A. Western Hemisphere : Bahama Islands : Barbados ; Bermuda ; British Honduras ; British West Indies and Tonga ; Falkland Islands ; Guyana ; Jamaica ; Leeward and Windward Islands and Trinidad and Tobago. Total 10.

B. Europe: Gibraltar; United Kingdom; Iceland and Irish Republic. Total 4.

C. Africa: Tanzania; Kenya; Uganda; Nigeria; Libya; Mauritius; Republic of Malawi; Seychelles; Sierra Leone; South Africa; St. Helena; Swaziland; Ghana; Gambia Republic; Lesotho; Botswana and Republic of Zambia. Total 17.

D. Middle East: Aden; Cyprus; Malta; Pakistan; Jordan; Persian Gulf Ports (Others); Bahrein; Doha; Dubai; Kuwait and Muscat. Total 11.

E. Far East: Australia; Bhutan; Federation of Malaysia (including British Borneo) (Sabah), Sarawak and Straits Settlements (Malaya); Fiji Islands; Hong Kong; India; Maldive Islands; New Zealand; Sikkim; Sri Lanka; Western Samoa and Singapore. Total 12.

II. DOLLAR AREA

U.S.A.; Bolivia; Canada; Colombia; Costa Rica; Dominican Republic; Ecuador; Gautemala; Haiti; Liberia; Philippines; Honduras; Mexico; Nicaragua; Panama; El Salvador and Venezuela. Total 17.

III. O.E.C.D. COUNTRIES

(Organisation for Economic Co-operation & Development Countries)

Austria; Belgium; Canada; Denmark; Finland; France; West Germany; Greece; Holland (Netherlands); Iceland; Ireland; Italy; Japan; Luxembourg; Norway; Portugal; Spain; Sweden; Switzerland; Turkey; United Kingdom; U.S.A. *Special Status:* New Zealand and Yugoslavia. Total 24.

IV. REST OF THE WORLD

A. Western Hemisphere: Argentina; Brazil; Chile; Dutch West Indies (Paramaribo, Aruba, Curacao, Surinam and Antilles); French Guiana; Paraguay; Peru; Uruguay; French West Indies and Cuba. Total 10.

B. Europe: Albania; Bulgaria; Czechoslovakia; Finland; Hungary; Poland; Rumania; U.S.S.R.; Vatican City; Yugoslavia; German Democratic Republic and Monaco. Total 12.

C. Africa: Algeria; Burundi; Cameroun; Central African Republic; Chad; Congo-Leopoldville; Congo-Brazzaville; Dahomey; Ethiopia; Eritrea; French Somali Coast; Gabon; Guinea Republic; Ivory Coast; Malagasy Republic (Madagascar); Mauritania; Morocco; Niger; Portuguese Africa (Angola, Mozambique, Portuguese Guinea); Republic of Mali; Reunion Islands; Ruanda; Senegal; Somalia Republic; Spanish Morocco (Ifni); Spanish West Africa (Canary Islands); Sudan; Tangier; Togoland; Tunisia; Egypt; Upper Volta and Southern Rhodesia. Total 33.

D. Middle East: Afghanistan; Saudi Arabia; Iran; Iraq; Israel; Lebanon; Syrian Arab Republic and Yemen. Total 8.

E. Far East: Nepal; Cambodia; China; Democratic Republic of Viet Nam; Democratic Republic of Korea (North Korea); Formosa; Indonesia; Japan; Lagos; Macao; Mongolian People's Republic; Republic of Viet Nam; New Caledonia; New Hebrides; Pacific Islands not included elsewhere; South Korea; Tahiti; Thailand; Tibet; Timor and Burma. Total 21.

F. Countries with whom India has Rupee payment agreements: Bulgaria; Czechoslovakia; German Democratic Republic; Hungary; Poland; Rumania; U.S.S.R.; Yugoslavia and Egypt. Total 9.

EXPORT PROMOTION COUNCILS

Basic Chemicals, Pharmaceuticals and Soaps Export Promotion Council: 7, Cooperage Rd., Bombay 400039. Tel: "Chemexcil"; *Branch Office:* 12, Mount Rd., Madras 600006. *Overseas Correspondent:* Kirit M. Shah, C/o Indian Trade Representative, 545/547, Merchant St., Rangoon, Burma.

Cashew Export Promotion Council: World Trade Centre, M. Gandhi Rd., Ernakulam, Cochin 682016, India.

Chemicals and Allied Products Export Promotion Council: 14/1B, Ezra St., Calcutta-700001; Tel: "Capexil". *Branch Offices:* (*i*) Commerce Centre, Block D-17, Tardeo Rd., Bombay 400034; (*ii*) *Joint Regional Office of Capexil & Chemexil:* 123, Mount Rd., Madras-600001.

Overseas Correspondents: (*i*) C. P. Goonetilleke, C/o First Secretary (Comm.), State Bank of India Bldg., Entrance Baillie St., Colombo, Sri Lanka; (*ii*) K. M. Shah, Post Box No. 383, Embassy of India, 545/547, Merchant St., Rangoon, Burma; (*iii*) Messrs. Gathani Ltd., Gathani House, Huddersfield Rd., Industrial Area, Nairobi, Kenya; (*iv*) M. K. Unnithan, Post Box 975, Bangkok, Thailand; (*v*) Messrs. Dolly Enterprises. Post Box No. 16061, Hong Kong; (*vi*) Mr. P. G. Salvi, Foreign Officer, Chemicals and Allied Products Export Promotion Council, La Casa Bldg., Apt. 17, Sadat St., Beirut, Lebanon; (*vii*) Harry Hutauruk, Post Box No. 118–44, Djakarta, Indonesia; (*viii*) Khaled George Talia, Embassy of India, Baghdad, Iraq.

Cotton Textiles Export Promotion Council: Engineering Centre, Mathew Rd., Bombay 400004; Tel.: "Texprocil"; Telex: 011/2166. *Branch Offices:* (*i*) Jaldarshan Housing Society, Opp. Nataraj Cinema, Ashram Rd., Ahmedabad 380009; (*ii*) 14-1B, Ezra St., Calcutta 700001; (*iii*) 13-A, Vincent Colony, Govind Singh Rd., R. S. Puram, Coimbatore 641002; (*iv*) 704, Akash Deep, 26-A, Barakhamba Rd., New Delhi 110001; (*v*) C/o Madhya Pradesh Textile Mills Association, No. 8, South Tukoganj, St., No. 1, Indore.

Overseas Representatives: (*i*) M. Chakraborty, C/o Embassy of India, 545/547, Merchant St., Rangoon, Burma; (*ii*) K. Vasudevan, P. O. Box No. 1186, Nairobi, Kenya; (*iii*) T. J. Jacob, Consulate General of India, Wilhelm Leuschner Str. 93, 6, Frankfurt/Main, West Germany; (*iv*) M. M. Ratnam, St. Jame's Bldg., 79, Oxford St., Manchester (U.K.).

Engineering Export Promotion Council: World Trade Centre, 14/1B, Ezra St., Calcutta 700001. Tel.: "Oceanborne (c)"; Telex: 021/7838. *Territorial Division:* Vandna (Fourth Floor), 11, Tolstoy Marg, New Delhi 110001. *Branch Offices:* (*i*) Commerce Centre, Tardeo Rd., Bombay 400034; (*ii*) Surya Kiran, 19, Kasturba Gandhi Marg, New Delhi 110001; (*iii*) Rasheed Mansion, 123, 123, Mount Rd., Madras 600006; (*iv*) World Trade Centre, 14/1B, Ezra St., Calcutta 700001.

Regional Managers: (*i*) A. K. Ramdas, Room No. 505; Piccadilly Bldg., P.O. Box 6582, Rue Hamra, Beirut, Lebanon; (*ii*) S. R. Mazumdar, Indische Technische Handelsberatung, 4, Duesseldorf, Immermanstr — 59, West Germany; (*iii*) D. K. Bakshi, 28/30, Cork St., London W-1; (*iv*) O. P. Pathak, Room No. 115, St. George House, Parliament Rd., Nairobi, Kenya; (*v*) S. K. Khasnavis, Faber House, 238 D, Orchard Rd., Killiney, Singapore 9; (*vi*) D. S. Ahluwalia, 333, North Michigan Avenue, Chicago, Illinois 60601, U.S.A.

Overseas Correspondents: Kirit M. Shah, Embassy of India, 545/547, Merchant St., Rangoon, Burma.

Export Promotion Council for Finished Leather, Leather Manufactures: 15/46, Civil Lines, P. Box 198, Kanpur 208001; Tel: "Lexport"; Telex: KEPC KP-286. *Branch Offices:* (*i*) 'Niranjan', 2nd Floor, 99, Marine Drive, Bombay 400002; (*ii*) 31, Park Mansion, Park St., Calcutta 700016; (*iii*) 'Marble Hall', 3/38, Vepery High Rd., Madras 600003.

Gem and Jewellery Export Promotion Council: D-15, Commerce Centre, Tardeo Rd., Bombay 400034.

Handloom Export Promotion Council: 123, Mount Rd., Madras 600006; Tel: "Gossamer"; Telex: MS-7158.

Leather Export Promotion Council: Marble Hall, 3/38, Vepery High Rd., Madras 600003; Tel: "Lexprocil"; Telex: MS-7354.

Marine Products Export Development Authority: M. Gandhi Rd., Ernakulam, Cochin 682016; Tel: "Marine", Ernakulam.

Plastics and Linoleums Export Promotion Council: Nyloc House, 254-D2, Dr. A. Besant Rd., Bombay 400025. Tel: "Plexconcil"; Telex: 011/3940. *Regional Offices:* (*i*) 123, Mount Rd., Madras 600006; (*ii*) 14/1B, Ezra St., Calcutta 700001.

Processed Food Export Promotion Council: R-15 N. D. S. E-Part II, New Delhi 110049. Tel: "Profoodcil".

Shellac Export Promotion Council: 14/1B, Ezra St., Calcutta 700001; *Deals in:* Seedlac, shellac and lac manufactures.

Silk and Rayon Textiles Export Promotion Council: Resham Bhavan, 78, Vir Nariman Rd., Bombay 400020; Tel: "Silkrayon"; Telex: 011/3703; *Branch Offices:* (*i*) Resham Bhavan, Plot No. 3D/E, Lal Darwaza, Surat 395001; (*ii*) 3A, Diwan C. Mehra Rd., Amritsar 143001.

Spices Export Promotion Council: World Trade Centre, M. Gandhi Rd., Ernakulam, Cochin 682016.

Sports Goods Export Promotion Council: 1E/6, Jhandewala Extension, New Delhi 110055.

Tobacco Export Promotion Council: 123-C, Mount Rd., Madras 600006; *Sub Office:* Old Club Rd., Kothapeta, Guntur 522001. (A.P.).

Wool and Woollens Export Promotion Council: Churchgate Chambers, 5, New Marine Lines, Bombay 400020. Tel: "Woollens"; Telex: 011/3922. *Regional Office:* D.C.'s Residence Rd., Civil Lines, Ludhiana 141001.

BANKING

As many as 1,593 (547 in unbanked centres) new branches were opened between July, 1973 and June, 1974 (against 1,756 during the previous year). Of these, 909 branches were opened by 14 nationalised banks, 297 by the State Bank of India and its subsidiaries and the remaining 387 by other scheduled and non-scheduled commercial banks. The total number of bank offices stood at 16,936 on 30th June, 1974.

In the allocation of credit to the priority sector (including food and export credit), the advances of the scheduled commercial banks had risen from Rs. 22,480 million at the end of March, 1973 to Rs. 30,680 million at the end of March, 1974. Of this amount the share of small industrial units was Rs. 7,000 million at the end of March, 1973 and Rs. 9,260 million at the end of March, 1974.

National Income in 1973-74 fiscal year was expected to be around Rs. 197,240 million at constant (1960-61) prices and Rs. 492,900 million at current prices. **The per capita income** during the period was Rs. 340 at constant (1960-61) prices and Rs. 850 at current prices. The deposits aggregated at Rs. 107,064 million at the end of June, 1974, showing an increase of Rs. 15,411 million during the year. The credit deposit ratio was 72·7 per cent against 70·6 per cent in the previous year.

Average Population served by commercial banks improved from 40,000 to 33,000 at the end of June, 1974 and to 32,000 at the end of June, 1974. It is 5,000 in Britain, 7,000 in the U.S., 11,000 in Iran and 15,000 in Japan.

Working Results of Public Sector Banks: An analysis of working results of 22 public sector commercial banks (*i.e.* State Bank of India, its seven subsidiaries and 14 nationalised Indian banks) reveals that their profits of Rs. 123 million for the year 1973 recorded a marginal improvement of Rs. 4 million over that for 1972 as against a decline of Rs. 8 million in the previous year. The total income of these banks increased by 24·7 per cent (to Rs. 7,544 million) during 1973 as compared to a rise of 18 per cent during 1972. The rise in earnings from interest and discount was by 24·6 per cent and the total expenses of these banks at Rs. 7,421 million increased by 25·2 per cent in 1973 as compared to 18·7 per cent in 1972. This was attributed to the income in interest payments on deposits and borrowings and to the rise in the expenditure on salaries and allowances.

State Bank Group: Total income of the State Bank of India improved from Rs. 1,689 million in 1972 to Rs. 2,073 million in 1973. The Bank's expenditure also increased by Rs. 381 million as compared to Rs. 268 million in the preceding year. Consequently, the profits of the State Bank of India at Rs. 41 million in 1973 recorded an increase of Rs. 2·7 million as against an increase of only Rs. 0·7 million in 1972.

The seven subsidiary banks of the State Bank increased their income from Rs. 471 million in 1972 to Rs. 584 million in 1973. Since their expenditure also increased by almost the same extent as the income, their profits showed only a small increase of Rs. 0·2 million.

Foreign Banks: Total income of 11 foreign banks increased from Rs. 669 million in 1972 to Rs. 758 million in 1973, showing a rise of 13·6 per cent over the previous year.

All foreign banks together transferred to their Head Offices an amount of Rs. 32·1 million in 1973 as compared to Rs. 39·1 million in 1972.

Selected data for Scheduled Commercial Banks

Item	June 1971	June 1972	June 1973
No. of offices	12,013	13,622	15,362
Aggregate deposits (Rs. million)	62,160	76,100	90,180
Total bank credit (Rs. million)	48,050	54,800	62,990
Credit deposit ratio (%)	77·3	72·0	69·8
Investment in government and other approved securities ..	18,070	23,180	29,490
Investment deposit ratio (%)	29·1	30·5	32·
Cash in hand and balances with R.B. ..	3,970	5,370	7,940

State-wise distribution of bank offices at the end of June 1972, June 1973 and June 1974

States	Opened during 1972-73 (July–June)		Opened during 1973-74 (July–June)		Population per bank office (in thousands) as at the end of		No. of offices at the end of		
	Total	Of which unbanked centres	Total centres	Of which unbanked centres	June 1973	June 1974	June 1972	June 1973	June 1974
1. Andhra Pradesh ..	144	55	131	48	37	35	959	1,103	1,234
2. Assam	19	11	16	18	82	79	149	168	184
3. Bihar	52	32	79	36	86	84	541	593	672
4. Gujarat	90	25	116	25	19	19	1,234	1,320	1,436
5. Haryana	39	13	52	17	26	26	299	338	390
6. Himachal Pradesh ..	28	22	26	17	22	22	108	136	159
7. Jammu & Kashmir ..	23	12	26	9	29	28	116	139	164
8. Karnataka	188	76	143	59	19	18	1,292	1,479	1,621
9. Kerala	93	32	89	37	19	18	980	1,072	1,163
10. Madhya Pradesh ..	80	42	80	28	53	51	669	748	820
11. Maharashtra	187	44	140	19	26	25	1,679	1,866	2,005
12. Manipur	3	2	—	—	119	119	6	9	9
13. Meghalaya	1	—	1	1	56	56	16	17	18
14. Nagaland	1	1	1	—	86	74	5	6	7
15. Orissa	33	20	30	16	89	86	192	225	255
16. Punjab	121	58	97	57	16	16	651	772	869
17. Rajasthan	94	32	79	33	36	35	570	664	743
18. Tamil Nadu	175	65	134	36	24	23	1,484	1,650	1,784
19. Tripura	2	1	4	2	92	86	12	14	18
20. Uttar Pradesh	173	91	177	57	54	53	1,324	1,497	1,673
21. West Bengal	122	19	108	35	46	45	760	882	987
Union Territories									
22. Andaman & Nicobar Islands.	—	—	1	1	23	23	4	4	5
23. Arunachal Pradesh ..	—	—	1	1	78	78	5	5	6
24. Chandigarh	8	—	3	1	6	6	33	41	44
25. Dadra & Nagar Haveli ..	—	—	—	—	19	19	4	4	4
26. Delhi	70	—	50	—	8	8	385	455	502
27. Goa, Daman & Diu ..	7	5	8	4	6	6	118	125	133
28. Lakshadweep	2	2	—	—	8	8	2	4	4
29. Mizoram	—	—	—	—	332	332	1	1	1
30. Pondicherry	1	—	1	—	18	18	24	25	26
Total	1,756	690	1,593	547	33 (Ave.)	32 (Ave.)	13,622	15,362	16,936

Nationalisation of Banks : 14 banks were nationalised by an ordinance on 20th July, 1969 when custodians and boards of directors of each bank were appointed. They continued in office till new boards of directors were announced on December 8, 1972. With the new boards coming into existence, the office of the custodian ceased and its place was taken by a chairman and managing director in each bank who as chief executive presides over the meetings of the board.

Names of 14 Banks and the names of chairmen and managing directors are given below :

Central Bank of India : *P. F. Gutta ;* Bank of India, *J. N. Saxena ;* Punjab National Bank : *P. L. Tandon ;* United Commercial Bank : *V. R. Desai ;* Canara Bank : *C. E. Kamath ;* United Bank of India : *M. Sen Sarma ;* Dena Bank : *R. A. Gulmohamed ;* Syndicate Bank : *K. K. Pai ;* Union Bank of India : *Raghu Raj ;* Bank of Baroda : *R. C. Shah ;* Allahabad Bank : *S. D. Verma ;* Indian Bank : *G. Lakshminarayan ;* Bank of Maharashtra : V. M. *Bhide ;* Indian Overseas Bank : *A. M. Kadhiresan.*

PROGRESS OF BANKING

Item	June 1969	June 1974
BANK OFFICES (No.)	8,262	16,936
(*a*) Rural	1,832	6,175
(*b*) Semi-urban	3,322	5,170
(*c*) Urban	1,447	2,891
(*d*) Metropolitan centres ..	1,661	2,700

BULLION

GOLD : Quest for gold is centuries old, but, it has been available in any real quantity only for the last hundred and twenty years. The gold mined between 1492 and 1970, is estimated to be 73,000 tonnes. But more gold had been mined from 1800 to 1970 than in the preceding 5000 years, due to more discoveries in Brazil, Russia, California (U.S.A.), Australia and South America. Three quarters of the total had been mined in the 20th century, and nearly two-thirds of it since 1931.

International Price of Gold : The price of gold in free markets rose from $130 an ounce in January, 1974, to $190 in January 1975. A contributing factor for the rise was the change in American policy allowing its citizens to hold gold. Another factor was international monetary uncertainties.

In January, 1975, the 126 countries of the International Monetary Fund (IMF) agreed to abolish the official price of gold, thus putting an end to the privileged role gold has been enjoying in the international monetary system for the past 30 years.

The decision opened the way to the elimination of any reference to gold in the IMF statutes and amounted to a new step towards the release of gold stocks held by central banks.

The IMF members agreed to lift the obligation to pay one fourth of their IMF quota in gold. **(See end of chapter for Bombay prices) World Gold Holdings:** (In million of U.S. $: End of Period)

	1971	1972	1973 Aug.
Countries holdings ..	39,145	38,815	43,190
Official holdings ..	44,680	44,905	49,940

Source : International Financial Statistics.

Gold Consumption: Gold production in the free market in 1973 was 1,120 tonnes. With supplies from the Communist Block amounting to 379 tonnes, the total supply was in the neighbourhood of 1,500 tonnes ; The supply position has remained about the same during 1974. The rise in the free market price is expected to increase this supply.

Compared to previous years, the demand for gold has fallen during the past few years. It touched 1,381 tonnes in 1970 while in 1973 it came down to 1,350 tonnes. Absorption of this in Europe was 780 tonnes and in the rest of the world 570 tonnes.

Of the total of 1,350 tonnes, India absorbed 63 tonnes in 1973 compared to 110 tonnes in 1972, 179 tonnes in 1971 and 217 tonnes in 1970. The demand in India in 1974 is estimated at 40 tonnes. The fall in demand from 1970 peak has been attributed to the steep rise in prices abroad. Most of the gold that came to India was through unauthorised imports.

Official Gold Holdings : The following table shows the value of gold holdings of central banks all over the world (except China, U.S.S.R. and associated countries) in millions of U.S. dollars at U.S. $38 per fine ounce in 1972 and at U.S. $42·22 per fine ounce thereafter.

	30th June 1974	End 1973	End 1972
Official holdings ..	49,835	49,845	44,905

The value of the total holdings as at 30th June, 1974, based on U.S. $170.000 per fine ounce would have been U.S. $200,661,000,000.

Gold Standard : The true gold standard existed only in the 50 years preceding World War I. Till the 19th century most countries were on silver or bi-metallic (silver 15 or 16 part, gold one part) standard. Britain went into a formal gold standard in 1816, Europe followed in 1870s and U.S.A. started after 1900 — same as India. However, gold standard was only a phase and was over by 1914.

International gold exchange standard prevailed since the last war till 1973. It meant a country's monetary authority responsible for determining and managing the supply of gold to supplement their resources with key currencies, notably dollars and sterling, which could be redeemed for gold.

Gold Production : The following table shows the production of gold in various countries in fine kilos :

	1974	1973	1972	1971
South Africa	**758,502**	**852,235**	**909,777**	**956,338**
Canada	53,498	60,030	64,695	70,294
U.S.A.	35,147	36,236	45,100	46,500
Australia..	16,796	17,107	23,483	20,839
Ghana	24,882	22,706	22,550	21,617
Philippines	18,662	17,729	18,818	19.906
Rhodesia	15,552*	15,552*	15,552*	15,552*
Japan	6,221	6,687	7,465	7,465
Mexico	4,666	4,043	4,510	4,666
Colombia	8,709	5,599	5,754	5,910
Zaire	4,354	4,199	2,488	5,599
Papua/New Guinea	18,662	16,485	12,441	622
India	**2,799**	**2,955**	**3,110**	**3,597**
Other countries	26,438	30,170	21,305	35,458
Total	**994,889**	**1,091,733**	**1,157,048**	**1,234,343**
South Africa	76·2%	78·1%	78·6%	79·0%

(Production figures for 1974 and marked * are estimated)

GOLD & SILVER PRICES

Year	GOLD PER TOLA			SILVER PER 100 TOLAS		
	Highest	Lowest	Average	Highest	Lowest	Average
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1927–28 ..	21 11 3	21 4 9	21 7 6	61 2 0	56 8 0	59 3 7
1928–29 ..	21 11 6	21 4 6	21 6 10	66 6 0	58 2 0	60 9 2
1929–30 ..	21 0 0	21 5 3	21 7 5	59 7 0	46 14 0	53 9 11
1930–31 ..	21 13 3	21 3 6	21 12 6	57 4 0	39 0 0	46 15 1
1931–32 ..	31 2 0	21 3 6	24 4 3	66 8 0	41 12 0	50 3 11
1932–33 ..	32 1 6	26 10 0	29 5 2	60 0 0	48 14 0	52 11 11
1933–34 ..	34 12 0	28 11 0	32 4 5	59 14 0	52 15 0	56 0 10
1934–35 ..	36 13 3	33 3 0	35 15 8	67 0 0	50 7 6	60 13 5
1935–36 ..	36 12 0	31 3 6	35 4 11	87 0 0	46 12 0	65 1 1
1936–37 ..	35 8 0	35 15 3	34 12 6	56 2 0	47 0 0	50 5 8
1937–38 ..	32 2 0	34 3 6	34 7 10	55 15 6	46 1 6	51 4 1
1938–39 ..	37 10 7	34 12 3	35 10 3	53 1 6	48 2 0	51 11 3
1939–40 ..	43 8 0	36 9 0	39 13 11	66 4 0	44 7 6	55 4 9
1940–41 ..	48 8 0	40 2 6	42 6 0	64 13 0	54 10 0	62 8 0
1941–42 ..	57 12 0	41 9 6	44 7 11	97 6 0	61 12 6	66 11 4
1942–43 ..	72 0 0	44 12 0	57 10 10	116 8 0	75 4 0	94 2 6
1943–44 ..	96 4 0	65 4 0	76 11 6	141 8 0	101 8 0	120 7 11
1944–45 ..	76 12 0	61 2 0	71 7 4	143 4 0	113 10 0	128 10 9
1945–46 ..	97 12 0	63 6 0	80 3 0	159 6 0	118 0 0	135 1 11
1946–47 ..	111 0 0	84 4 0	101 1 2	195 0 0	127 0 0	162 4 10
1947–48 ..	117 12 0	95 14 0	108 0 4	183 8 0	142 8 0	166 12 6
1948–49 ..	121 0 0	103 0 0	114 9 10	190 8 0	166 8 0	177 9 0
1949–50 ..	119 10 0	107 2 0	114 14 11	192 12 0	158 14 0	174 11 10
1950–51 ..	120 2 0	104 12 0	113 7 4	198 12 0	173 14 0	185 14 3
1951–52 ..	118 10 0	79 0 0	98 8 0	207 4 0	139 0 0	173 2 0
1952–53 ..	95 14 0	77 5 0	88 0 1	174 12 0	141 12 0	159 8 4
1953–54 ..	93 6 0	79 8 0	86 1 6	167 14 0	148 14 0	157 4 10
1954–55 ..	95 6 0	83 0 0	89 2 4	173 14 9	147 15 0	159 3 9
	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.
1955–56 ..	91·79	76·66	82·12	157·59	132·68	144·65
1956–57 ..	93·98	84·83	89·61	160·64	144·63	150·58
1957–58 ..	98·06	89·59	92·99	168·09	151·91	158·32
1958–59 ..	103·31	89·33	96·09	173·19	152·99	162·95
1959–60 ..	107·98	99·98	103·71	187·12	164·50	176·08
1960–61 ..	124·40	107·12	114·01	209·30	181·00	193·64
1961–62 ..	126·00	115·85	121·25	219·65	196·95	206·49
1962–63 ..	129·90	86·00	117·71	242·00	187·80	218·69
1963–64 ..	118·00/ 69·75	97·00/ 58·00	111·98/ 61·85	269·00	222·50	240·32
1964–65 ..	72·75	63·25	68·84	281·50	224·00	261·17
1965–66 ..	85·00	70·50	77·78	406·50	281·00	314·62
1966–67 ..	92·75	76·00	83·85	385·00	336·00	358·88
1967–68 ..	168·00	146·00	156·97	565·00	346·00	430·09
1968–69 ..	181·00	150·00	160·45	633·00	508·00	556·67
1969–70 ..	192·00	163·50	179·62	521·00	446·00	489·13
1970–71 ..	198·00	177·50	184·96	588·50	483·50	536·08
1971–72 ..	214·50	188·00	200·16	610·50	51·225	561·35
1972–73 ..	288·00	202·00	242·14	655·00	495·00	554·20
1973–74 ..	525·00	279·00	369·23	1,420·00	612·00	796·14

(*a*) Spot prices relate to gold bullion upto 1963, 14 carat gold upto 1966 and to standard gold from 1967 onwards.

(*b*) Average relating to closing quotations for working days.

(*c*) The quotations from 1955–56 onwards are in Rupees and Naye Paise.

(*d*) The quotations from 1960 onwards are per 10 gms. of gold and per kg. of silver instead of tola and 100 tolas respectively.

(*e*) Spot prices of silver relate to below 0·996 fineness.

This picture, however, changed when in February 1973 the U.S.A. devalued its dollar for the second time in 14 months by 10 per cent.

An ounce of gold that for 37 years cost only $35 and which went, officially, to $38 in 1972, was worth $42·22 towards the end of 1973. In reality, no gold was traded at that price. In the wake of U.S. devaluation, the price of gold in London market shot up beyond expectations and the free price of gold at one time even touched $198 per ounce last year.

In 1971, the U.S. withdrew the free convertibility of dollars with gold. Except in France, there had been no restoration of an international gold standard by early 1970s.

India and Gold : Indian gold market is quite different from the international market. India has the world's largest stock of privately hoarded gold. The mobilisation of this gold could effect the international market also. But this is unlikely to happen unless a social revolution takes place. As long as gold prices continue to rise India's economy will remain in the dread of devaluation. As a protective measure, India's hoarded gold should be coaxed into the market and also India's gold output of 120,000 oz. per year should be stepped up.

Free market price of gold which was ruling about $55 p.f.o. in January, 1973, touched $127 on July 6, 1973, and $198 in November, 1974. This rise slackened the demand for gold purchase in India. Actually, the authorised imports of gold to India were practically nil.

Stocks of Gold in India : It was estimated that the total stocks of gold in the country in 1951 was 85·4 million ozs. Since 1951 to December, 1972, the smuggled gold was estimated at 58·1 million ozs., bringing the total stock to 143·5 million ozs. (4,600 tonnes or 46,000 kgs.) as on December 31, 1973.

SILVER : The year 1974 was the most chaotic period in the history of world silver markets. Not only did the price reach a new high of more than double the previous record, but the violence of the fluctuations exceeded all expectations. The long upward spiral of prices which started in late 1971 culminated in a virtual price explosion early in 1974. Thereafter the market subsided somewhat but at year-end was still substantially above opening levels.

World consumption of silver during 1974 for industrial and coinage uses combined, excluding Communist-dominated areas, amounted to about 448,000,000 ounces, a decrease of about 9 per cent over 1973 figures. The industrial consumption was about 415,000,000 ounces 12 per cent less than the previous year, while coinage consumption increased to 33,000,000 ounces from 21,000,000 ounces in 1973. The increase in coinage consumption was largely accounted for by the special Canadian issues for the 1976 Olympics.

For the first time since pre-World War II period the Indian Government early in 1974 legalised the export of silver. This move represented a long-delayed official recognition that extensive silver smuggling operations had been going on for many years. Total exports during 1974 was estimated at about 42,000,000 ounces of which some 25,000,000 enjoyed official sanction. Consumption of silver in India for industrial purposes in 1974 amounted to about 15,000,000 ounces, an increase of 15 per cent over 1973. Although production of silver in India is only around one tonne a year, internal individual reserves held by the public are considered to be very large. Given sufficient price inducement, the reserves should continue to be a source of supply for world markets for many years.

On an average the consumption is esimated at 16,000,000 ounces per year. During 1974 the price of silver reached the highest peak at Rs. 1,420 per kilo on January 7. It came down gradually but again went up from January 1, 1975. The continuous rise during 1975 was mainly due to corresponding increases in the international market.

The demand for silver was confined to local purchases which was slack due to rise in prices.

Price of Gold in London Market (in dollars per fine ounce) : 1973 January — 66 ; February — 89 ; March — 90 ; April — 91 ; May — 113 ; June — 121 ; July — 125 ; August — 109 ; September — 106·25 ; October — 102 ; November — 101·50 ; December — 109·50.

1974 January — 130 ; February — 147.

Spot average price of gold and silver in Bombay market :

Gold (Rs. per ten grams)

1974 January — 402·94 ; February — 454·62 ; March — 502·04 ; April — 538·14 ; May — 527·83 ; June — 494·83 ; July — 503·30 ; August — 507·96 ; September — 506·10 ; October — 503·70 ; November — 522·24 ; December — 513·96.

1975 January — 531·70 ; February — 543·25 ; March — 530·19 ; April — 547·58.

Silver (Rs. per kg.)

1974 January — 878·08 ; February — 1,157·76 ; March — 1,270·76 ; April — 1,189,74 ; May — 1,251·56 ; June — 1,163·46 ; July — 1,111·52 ; August — 1,127·67 ; September — 1,029·00 ; October — 1,156·96 ; November — 1,166·80 ; December — 1,092·64.

1975 January — 1,169·44 ; February — 1,058·66 ; March — 1,049·57 : April — 1,028·32.

NATIONAL INCOME

PER Capita Income : The per capita income for 1972-73 (Latest available in April, 1975) was Rs 687·6 at current prices and Rs. 337·5 at constant 1960-61 prices.

The per capita income at current prices in 1972-73 registered a rise of 14·5 per cent over 1969-70 ; 9·6 per cent over 1970-71 and 6·5 per cent over 1971-72. A similar comparison at 1960-61 prices showed a decline of 1·3 per cent, 2·4 per cent and 1·8 per cent in that order.

National Income: India's national income at Rs.197,240 million in 1973-74 showed an increase of 4 per cent over the previous year.

Debt Burden: Government of India's outstanding public debt aggregated Rs. 26,400 million at the end of March, 1975. By the end of March, 1976, it is expected to go up to Rs. 281,880 million.

The budget estimates (see also chapter on Central Budget) for 1975-76 show an increase of Rs. 21,740 million in the aggregate liabilities of the Central Government.

During 1975-76 **internal debt** is expected to go up by Rs. 7,800 million to Rs. 128,980 million. The **external debt** would go up by Rs. 6,130 million to Rs. 70,320 million.

TREND IN NATIONAL AND PER CAPITA INCOME

(at 1960-61 Prices)

	National Income		Per Capita Income	
Year	Rs. Million	Per cent change over previous year	Rupees	Per cent change over previous year
1950–51	90,780	—	252·9	—
First Plan	**Growth Rate**	**3·7**		**1·8**
1951–52	92,790	2·2	254·2	0·5
1952–53	95,900	3·4	257·8	1·4
1953–54	102,010	6·4	269·2	4·4
1954–55	104,830	2·8	271·6	0·9
1955–56	108,600	3·6	276·3	1·7
Second Plan	**Growth Rate**	**4·1**		**2·1**
1956–57	114,610	5·5	285·8	3·4
1957–58	112,540	—1·8	275·2	—3·7
1958–59	121,650	8·1	291·0	5·7
1959–60	123,990	1·9	291·1	—
1960–61	132,670	7·0	305·7	5·0
Third Plan	**Growth Rate**	**2·7**		**0·4**
1961–62	137,320	3·5	309·3	1·2
1962–63	139,940	1·9	308·2	—0·4
1963–64	147,690	5·5	318·3	3·3
1964–65	158,840	7·5	335·1	5·3
1965–66	150,810	—5·1	310·9	—7·2
Annual Plan	**Growth Rate**	**4·5**		**2·2**
1966–67	152,570	1·2	308·2	—0·9
1967–68	166,160	8·9	328·4	6·6
1968–69	171,800	3·4	331·7	1·0
Fourth Plan	**Growth Rate**	**2·8**		**0·5**
1969–70	181,520	5·7	343·1	3·4
1970–71	190,350	4·9	351·8	2·5
1971–72	192,990	1·4	348·4	—1·0
1972–73	191,300	0·9	337·4	—3·2
1973–74	197,240	3·1	340·1	0·8

Other liabilities of the Central Government like Small Savings, State Provident Funds and other unfunded debts would go up by Rs. 7,810 million.

As a proportion of **National Income,** the total debt liabilities of the Central Government at the end of March, 1976, would be about 47 per cent.

Revenue Income : The Central tax revenue has increased to 80 per cent of its total revenue receipts compared with 73 per cent in 1974-75 and 62 per cent in 1973-74.

Public Sector Investments: Total investments in the public sector as on March 31, 1974, was Rs. 62,370 million including Rs. 410 million on projects under construction. The **gross profit** earned during 1973-74 was Rs. 2,720 million.

Trade Deficit : During 1974-75 there was a trade deficit of Rs. 4,245 million.

Industrial Production : The average index of industrial production for the first seven months of 1974 at 201·9 showed an increase of 3·1 per cent over the corresponding period in 1973 when industrial production went down by about 1·0 per cent.

Income Tax Payers : Only 0·63 per cent of 600 million people paid income tax. The number of assessees was 3,531,086 in 1973-74 ; 3,388,259 in 1972-73, and 3,208,516 in 1971-72.

INDEX NUMBERS OF INDUSTRIAL PRODUCTION

(Seasonally Adjusted)
(1960 = 100)

Month	1972	1973	1974
January	193·9	198·4	199·7
February	200·4	192·8	198·9
March	199·3	199·8	200·8
April	194·5	194·8	200·9
May	199·3	194·2	204·5
June	200·4	194·3	206·3
July	195·2	197·1	202·1
August	198·9	204·9	
September	200·4	199·3	
October	205·4	200·8	
November	204·9	208·2	
December	189·4	210·3	
Annual average ..	199·3	199·6	
% change	(7·1)	(0·2)	
Average January to July	197·6	195·9	201·9
% change	(6·9)	(—0·9)	(3·1)

The percentage of income tax payers to total population was 0·58 in 1971-72 ; 0·62 in 1972-73 and 0·63 in 1973-74.

STRUCTURE OF INDIA'S DOMESTIC PRODUCT

(Share of different sectors in total product at 1960-61 prices)

(Percentages)

Item	1950–51	1960–61	1965–66	1970–71	1973–74
A. **PRIMARY SECTOR**	57·0	52·2	43·8	45·8	42·8
1. Agriculture	54·1	49·3	40·4	42·7	39·6
2. Forestry and Logging	1·5	1·3	1·6	1·4	1·4
3. Fishing	0·5	0·6	0·6	0·6	0·6
4. Mining and Quarrying	0·9	1·0	1·2	1·1	1·2
B. **SECONDARY SECTOR**	16·4	19·1	23·3	22·1	22·4
1. Manufacturing (*a* + *b*)	11·7	13·9	16·8	15·6	16·0
(*a*) Registered	6·3	8·0	10·4	9·6	10·0
(*b*) Unregistered	5·4	5·9	6·4	6·0	6·0
2. Construction	4·5	4·7	5·7	5·5	5·2
3. Electricity, Gas and Water supply	0·2	0·5	0·8	1·0	1·2
C. **TERTIARY SECTOR**	26·6	28·7	32·9	32·1	34·8
1. Transport, Storage and Communications	3·6	4·3	5·1	5·1	5·4
2. Trade, Hotels and Restaurants ..	8·5	9·7	11·1	10·5	10·7
3. Banking and Insurance	0·9	1·2	1·5	1·6	1·9
4. Real estate, Ownership of dwellings and Business services	3·1	3·0	2·9	2·4	2·4
5. Public administration and Defence	3·6	4·0	5·4	5·9	7·3
6. Other services	6·9	6·5	6·9	6·6	7·1
Total : Net domestic product — Rs. Crores	9,122	13,335	15,234	19,219	19,910
at Factor cost (A + B + C) — Percentage	100·0	100·0	100·00	100·0	100·0

SELECTED SOCIO-ECONOMIC INDICATORS FOR DIFFERENT STATES IN INDIA

States	Value added per capita (Rs.)	Domestic consumption of electricity per capita (kwh)	Industrial consumption of electricity per capita (kwh)	No. of banking offices per 100,000 population (No.)	Scheduled commercial banks — Deposits per capita (Rs.)	Scheduled commercial banks — Bank credit per capita (Rs.)	No. of students in primary and secondary schools per thousand population (No.) (P)	Motor vehicles per 100,000 population (No.) (P)	Total road length per 100 sq. km. of area (Kms.)	Per capita income at current prices (Rs.) (P)
Reference Year	(1969)	(1972-73)	(1972-73)	(1972)	(End of (1972)		(1969-70)	(31-3-(1972)	(31-3-(1971)	(1972-73)
Andhra Pradesh ..	25	4·3	25·2	2·7	71·4	59·9	114·8	308	35·7	631
Assam	33	3·0	14·0	1·3	44·5	20·3	147·4	316	48·9	571
Bihar	26	1·7	32·7	1·2	65·8	19·5	97·7	135	69·6	403†
Gujarat	90	9·8	95·6	7·0	247·3	139·5	156·3	622	27·8	856†
Haryana	53	7·1	53·8	4·0	118·5	60·6	134·2	224	29·7	906†
Himachal Pradesh	18	7·6	6·6	4·9	116·6	17·2	149·2	130	29·6	563†
Jammu & Kashmir	6	16·9	15·9	4·0	120·9	28·1	131·2	303	8·5	513**
Karnataka	51	9·3	87·6	6·5	137·6	121·6	149·5	459	46·9	570
Kerala	54	5·5	59·6	5·2	115·9	81·9	222·6	426	149·7	579††
Madhya Pradesh ..	21	3·6	40·2	3·1	53·3	27·7	102·3	205	25·3	632
Maharashtra ..	155	15·3	112·0	6·2	382·9	319·7	162·7	660	26·8	1,075(*)
Manipur	N.A.	6·1	1·0	1·0	0·2	0·1	211·7	239	26·5	424††
Meghalaya	N.A.	N.A.	N.A.	1·8	159·5	49·4	N.A.	N.A.	N.A.	N.A.
Nagaland	—	8·8	3·3	2·2	45·7	9·1	255·0	507	30·2	N.A.
Orissa	22	1·4	64·0	1·4	28·8	13·2	107·0	172	50·8	511††
Punjab	49	10·8	86·4	5·9	287·8	95·4	138·0	283	150·8	1,054††
Rajasthan	18	3·2	27·2	2·9	64·1	31·2	41·1	346	22·6	630*
Tamil Nadu ..	64	8·8	70·5	4·9	128·5	145·0	174·0	352	59·1	644*
Tripura	N.A.	3·3	1·2	1·5	51·3	5·4	145·0	309	58·6	N.A.
Uttar Pradesh ..	22	4·1	31·2	2·1	83·4	31·1	152·6	172	55·5	652
West Bengal ..	92	14·2	76·1	2·1	262·5	99·5	141·9	469	68·0	568
INDIA	51	7·4	55·4	3·6	152·6	102·5	136·8	364	29·2	698

N.A. = Not Available. (P) = Provisional. ** Relates to 1968-69. * Relates to 1970-71.
† Relates to 1969-70. (*) 1973-74. †† Relates to 1971-72.

CENTRAL BUDGET (1975-76)

(Rs. in million)

Revenue	1974-75 **Budget**	1974–75 **Revised**	1975–76 **Budget**
Receipts	56,410	64,850·00	68,750·00 (+ 2,390·00)*
Expenditure	54,080	58,600·00	64,910·00
Revenue Surplus	(+) 2,330	(+) 6,250·00	3,840·00 (+ 2,390·00)*
Capital			
Receipts	30,990	29,970·00	34,290·00
Expenditure	34,570	42,470·00	42,770·00
Deficit	(—) 3,580	(—)12,500·00	(—) 8,480·00
Overall Deficit	(—) 1,250	(—) 6,250·00	(—) 6,110·00

Revenue Receipts

(Rs. in million)

	1974–75 **Budget**	1974–75 **Revised**	1975–76 **Budget**
Tax Revenue			
Customs	9,160·00 (+ 200·50)*	13,000·00	12,500·00 (+ 340·50)*
Union Excise Duties	28,529·40 (+ 1,919·70)*	31,843·40	35,004·40 (+ 2,504·70)*
Corporation Tax	6,610·00	7,130·00	7,700·00 (+ 105·00)*
Income Tax	7,090·00	7,470·00	8,000·00 (— 90·00)*
Estate Duty	90·00	100·00	92·50
Taxes on Wealth	400·00	400·00	430·00
Interest Tax		250·00	600·00
Gift Tax	40·00	50·00	45·00
Others	947·50	1,036·00	1,144·60* (+ 17·50)
Gross Tax Revenue	52,866·90 (+ 2,120·20)*	61,279·40	65,516·50 (+2,887·70)*
Less States' Share	**11,722·90** **(+ 259·20)***	**12,244·10**	**13,329·40*** **(+ 489·20)**
Income Tax	4,912·60	5,123·20	5,501·10 (— 67·40)*
Estate Duty	86·30	95·50	83·40
Union Excise Duties	6,724·00 (+ 259·20)*	7,025·40	7,744·90 (+ 556·60)*
Net Tax Revenue	**41,144·00** **(+ 1,861·00)***	**49,035·30**	**52,177·10** **(+ 2,388·50)***
Non-Tax Revenue			
Interest Receipts	8,621·60	8,818·00	9,332·10
Dividends & Profits	1,909·20	1,951·20	1,960·90
Others	2,872·80	5,042·30	5,271·50
Total non-Tax Revenue	**13,403·36**	**15,811·50**	**16,564·50**
Total Revenue Receipts	**(+ 1,861·00)***	**64,846·80**	**68,751·60** **(+ 2,388·50)**

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* Effect of Budget Proposals.

Revenue Disbursements

(Rs. in million)

	1974–75 **Budget**	1974–75 **Revised**	1975–76 **Budget**
General Services	**32,461·70**	**34,901·10**	**38,245·20**
Organs of States	569·00	625·40	843·20
Fiscal Services	1,142·40	1,254·20	1,518·00
Interest Payments	9,751·30	10,223·40	11,878·40
Administrative Services	3,890·90	3,023·70	3,334·30
Pensions & Misc. Services	310·80	254·70	307·90
Defence (net)	16,797·30	19,519·70	20,363·40
Social & Community Services	**4,508·10**	**4,260·10**	**4,822·60**
Economic Services	**6,035·60**	**8,018·50**	**9,562·20**
General Economic Services	1,372·20	1,359·10	1,465·40
Agriculture & Allied Services	2,223·10	4,041·80	4,273·00
Industry & Minerals	1,199·40	1,359·00	2,311·80
Water & Power Development	523·10	506·20	685·00
Transport & Communications	717·80	752·40	827·00
Aid & Contributions	**11,073·40**	**11,420·30**	**12,279·30**
Aid to States and U.T.s	10,465·50	10,815·00	11,579·90
Aid to Other Countries	431·60	446·20	401·60
Other Grants & Contributions	176·30	159·10	297·80
Write Back to Capital Expenditure	—	—	—
Total Revenue Disbursements	**54,078·80**	**58,600·00**	**64,909·30**

* Include food subsidy of Rs. 1,000 million (1974–75 Budget) and Rs. 2,950 million each in 1974–75 Revised and 1975–76 Budget.

FIFTH FIVE-YEAR PLAN

BEGAN : April 1, 1974 ; **Total Outlay :** Rs. 534,110 million — Rs. 372,500 million in Public Sector and Rs. 161,610 million in Private Sector.

Draft Plan : Presented to Parliament 19th December, 1973.

Salient Features : Estimated rate of growth 5·5 per cent in GNP at factor cost. Twin objectives of removing poverty and making the country self-reliant. **Investments and Savings :** Out of the total investment of Rs. 475,610 million, Rs. 451,300 million will come from domestic savings and Rs. 24,310 million from net inflow of funds from rest of the world. This means a rise in the rate of investment from 13·7 per cent GNP in 1973-74 to 16·3 per cent GNP in 1978-79.

The distribution of total investments between different sectors (in million Rs.) is as follows : Public Sector — Rs. 314,000 ; Private Sector — Rs. 161,610 (Corporate — Rs. 52,610 ; Co-operative — Rs. 6,840 ; and, Household — Rs. 102,160).

In terms of GNP the rate of savings have been estimated to grow from 12·2 per cent in 1973-74 to 15·7 per cent in 1978–79. Out of the total domestic savings, Rs. 149,070 million are accounted for by State and Central governments and public undertakings, whilst Rs. 32,230 million come from corporate, co-operative and household savings.

The sectoral composition of domestic savings is given in the following table :

First Year Outlay : For the 1974-75 period the outlay was Rs. 26,000 million for the Central Sector and Rs. 22,000 million for the State Sector. During **1975-76** priorities would be given to agriculture, irrigation and energy sources such as power, oil and coal.

Estimated financial resources for the Fifth Plan by Generating Sectors

	Rs. million at 1972-73 prices
Budgetary provision for current development outlays	58,500
Domestic Savings	451,300
(*a*) Public sector	143,360
(*i*) Central and State budgets	83,480
(*ii*) Central and State non-financial enterprises	59,880
(*b*) Financial institutions	7,390
(*i*) Reserve Bank of India	4,610
(*ii*) Others	2,780
(*c*) Private sector	300,550
(*i*) Private corporate non-financial sector	41,390
(*ii*) Cooperative non-credit institutions	1,690
(*iii*) Household sector	257,470
Draft on foreign saving	24,310
(*a*) Fresh net inflow of funds to finance the balance of payments deficit on current account	22,310
(*b*) Accrual back from interest and amortisation payments in rupees on PL 480 debt and deposits	2,000
Total :	534,110

Minimum Needs : The Fifth Plan hopes to provide minimum needs of the people such as elementary education, rural health, nutrition, drinking water, provision of housing sites, slum clearance, roads and electrification.

The following table shows the amounts spent on these items during the last plan and the proposed expenditure in the Fifith Plan.

(Rs. millions)

Item	Fourth Plan Expenditure	Fifth Plan Outlay
Elementary Education ..	2,258·8	4,515·1*
Rural Health	227·9	2,914·7
Nutrition	13·8	5,302·0†
Rural Water Supply	1,651·1	5,540·0
Rural Roads	2,062·8	4,980·0
House sites for landless ..	44·6	1,079·5
Slum Improvement	69·1	943·6
Rural Electrification	4,271·1	2,760·3‡
Total	10,599·2	22,037·9§

* This is in addition to Rs. 2495·20 million for support programmes under Elementary Education.

† Including Care assistance in the form of food mainly for midday meal programme.

‡ This is in addition to Rs. 4000 million under Rural Electrification Corporation.

§ Excluding outlays for Territories.

The following table summarises the Public Sector outlays :

(Rs. million)

Heads of development	Centre	States	Union Territories	Total
Agriculture	19,460	27,170	670	47,300
Irrigation	1,400	25,150	260	26,810
Power	7,380	53,430	1,090	61,900
Mining & manufacturing	81,800	7,420	170	89,390
Construction	250	—	—	250
Transport and communication	57,270	12,970	910	71,150
Trade & storage	1,940	110	—	2,050
Housing and Real Estate	2,370	3,380	250	6,000
Banking & Insurance	900	—	—	900
Public administration & defence	600	300	80	980
Other services	19,530	35,800	2,570	57,900
(*i*) Education	4,840	11,550	870	17,260
(*ii*) Health	2,530	5,170	260	7,960
(*iii*) Family planning	5,160	—	—	5,160
(*iv*) Nutrition	700	3,300	—	4,000
(*v*) Urban development	2,520	2,720	190	5,430
(*vi*) Water supply	160	9,240	820	10,220
(*vii*) Social welfare	2,000	260	30	2,290
(*viii*) Welfare of backward classes	550	1,670	40	2,260
(*ix*) Labour welfare	150	380	40	570
(*x*) miscellaneous	920	1,510	320	2,750
Science and technology*	4,190	—	—	4,190
Hill and Tribal areas	—	5,000	—	5,000
Total	195,770	170,730	6,000†	372,500‡

* Includes provision for the Departments of Atomic Energy, Space, Science and Technology, Council of Scientific and Industrial Research, Supply and Anthropological Survey. In addition, a provision of Rs. 6,140 million for Science and Technology is included in the respective sectors.

† Tentative.

‡ The sectoral outlays total upto Rs. 373,820 million. A reduction of Rs. 1,320 million would be affected to keep the total at Rs. 372,500 million or alternatively additional resources to this extent would be found.

COMMUNICATIONS

POST AND TELEGRAPH

History : The first postal system was introduced in 1766 by Lord Clive, for official purposes only. In 1837, it was opened to the public and the first issue of postal stamps was made in Sind in 1852. The basis of authority of the existing postal system in India, is Act 6 of 1858. The first official airmail flight was taken on 18 Feb. 1911, by M. Pequet, a French aviator.

The first experimental telegraph line from Calcutta to Diamond Harbour was laid by Dr. William B. O. Shanghnessy. The first telegraph line was opened for traffic in October 1851. Telegraph circuits were gradually extended to all parts by 1867.

Administration : The Indian Posts and Telegraphs Department, the second largest civil employer in the country, comes under the administrative control of the Department of Communications. The Secretary of the Department holds charge of the office of the Director-General, Posts and Telegraphs as also that of the Chairman of the Posts and Telegraphs Board.

Staff : The staff strength as on March 31, 1974, was 629,275.

Pin Code : Postal Index Number code was introduced on 15-8-72. This is a 6 digit code which identifies and locates every departmental delivery office.

No. of Post Offices : There were 116,991 post offices on March 1, 1975 as compared to 116,741 in March 1974.

A post office today serves an average area of 27·37 sq. kms. and a population of 4,687 as against 142·08 sq. kms. and a population of 16,134 at the time of Independence. Instead of 16,700 new post offices in the country during the Fourth Plan the P. & T. Dept. were able to open15,662.

There are 101,120 letter boxes in the country.

Service in Villages : At the end of 1970 — 340,144 of India's 500,000 — odd villages were receiving their mail daily. 47,525 villages get their mail once a week.

Postal Traffic : In the year 1974 an estimated 6,993 million articles, excluding money orders, were handled.

100·62 million inland money orders totally valued at Rs. 7,386 million were issued. The department earned Rs. 138 million as commission.

448,569 parcels were despatched to foreign countries and 486,128 were received from abroad.

Mail Conveyance : A fleet of 748 vehicles cover 55 cities.

Within the country mails were conveyed by surface routes according to the following break-down : 11 per cent by rail ; 33 per cent by motor services ; 45 per cent by runners and 11 per cent by boats, camels, horses, bicycles etc.

Telegraph Offices : There are 17,137 telegraph offices.

61·4 million inland telegrams were booked during 1973-74 recording an increase of 6·4 per cent over the previous year. Express telegrams constituted 18·2 per cent and press telegrams 0·78 per cent of the traffic. The revenue yield on inland telegrams was Rs. 170 million.

Besides there were 9·66 million phonograms, 4 million greeting telegrams, 71,459 radio telegrams and 1,458 photos telegrams booked during the year.

Teleprinters : There were 15,993 teleprinters in use in the country, as on 31-12-70. This figure includes 600 Devnagri teleprinters.

Telephones : There were 4,752 telephone exchanges in the country as on Sept. 30, 1974. Out of this 3,732 were automatic exchanges. The numbers of telephones connected to the net-work was 1,674,000.

The number of applicants on the waiting list for telephones was 611,460 in December, 1974.

Trunk Traffic : Even with the expanded STD facility the long distance manually booked trunk calls rose to 152·40 million from 134·80 million in 1972.

Own Your Telephone : Total number of OYT connections given upto Dec. 15, 1974 was 290,592 and the revenue collected thereon was Rs. 821·5 million.

Subscriber Trunk Dialling : This facility is now available on the following routes, *viz.*, Lucknow-Kanpur, Delhi-Agra, Delhi-Jaipur, Agra-Kanpur, N. Delhi-Kanpur, N. Delhi-Lucknow, N. Delhi-Patna, N. Delhi-Jullundur, N. Delhi-Meerut, Madras-Bombay, Madras-Bangalore, Kanpur-Varanasi, Delhi-Simla, Delhi-Ahmedabad, Delhi, Jammu, Delhi-Srinagar, Srinagar-Jammu, Madras-Tiruchirapalli, Srinagar-Baramulla, Srinagar-Anantnag, Srinagar-Sopro and Bombay-Ahmedabad, Madras-Chingleput-N. Delhi-Amritsar, Amritsar-Chandigarh, Delhi-Jullundur, Shillong-Gauhati, Jullundur-Amritsar and Dehra Dun-Mussooree, Bombay-Pune, Bombay-Surat, Patna-Muzaffarpur, Bangalore-Hubli.

OVERSEAS COMMUNICATION SERVICE

India's Overseas Telecommunications network has four gateway centres at Bombay, Calcutta, New Delhi and Madras. An earth station operating with the Indian Ocean satellite of the International Satellite Consortium is located at Arvi and a second earth-station is being constructed at Dehra Dun.

OCS provides a wide coverage of various international services through its satellite and HF installations. Telegraph service is available with all parts of the world, telephone service with 179 countries, international telex service with 164 foreign systems and radiophoto service with 54 foreign points.

Other services provided by OCS are ; Leased private wire teleprinter, telephone and radiophoto channels for exclusive use of subscribers ; Point-to-Point programme transmission service for broadcast organisations ; transmission and reception service on press broadcast ; standard frequency/standard time transmission service.

BROADCASTING

History : Organised broadcasting was started in India in 1927 by private, Indian Broadcasting Company from Bombay and Calcutta. This lasted till 1930. Government of India decided to run radio stations in 1932. In 1935, broadcasting was constituted into a separate department. All India Radio replaced the earlier Indian State Broadcasting Service on June 3, 1936. Commercial services were started in November 1967.

Radio Licences : As on 31st December, 1973, the number of radio licences increased to 14 million from 12·90 million in December, 1972.

TELEVISION

Television at Delhi started as an experimental service in 1959 and since then it has grown considerably. The duration of the general television programme in the evening transmission has been increased to 3 hours from July 1970. Bombay television station started on 2nd October, 1972. It started with programme time limited to 2 hours and 15 minutes daily, which has been increased to 3 hours on week days and 3½ hours on Saturdays and Sundays.

A relay station on Simhagad was inaugurated on 2nd October, 1973. It relays Bombay programmes to Pune.

T. V. Licences : On 30th June 1974 the number of television licences increased to 213,049 from 84,114 in December, 1972.

DEFENCE SERVICES

SUPREME COMMANDER : President of India; **Chief of Army Staff :** Gen. T. N. Raina ; **Chief of Naval Staff :** Admiral S. N. Kohli ; **Chief of Air Staff :** Air Marshall O. P. Mehra.

(Further details under "Ministry of Defence.")

SECTOR COMMAND

Army : The army is organised into 5 commands under Army Headquarters. Each command is further divided into areas, independent sub-areas and sub-areas. A Command is commanded by a General-Officer-Commanding-In-Chief (called Army Commander) of the rank of Lt. General; Areas by General Officers Commanding (Maj. Generals) and Independent Sub-Areas by Brigadiers.

All these are static commands but each can form a mobile tactical headquarters for exercising operational control over its mobile formations.

[Army Commands with headquarters in brackets: Eastern Command (Calcutta, West Bengal), Southern Command (Pune, Maharashtra), Western Command (Simla, Himachal Pradesh), Central Command (Lucknow, Uttar Pradesh), and Northern Command (Udhampur, Jammu & Kashmir).]

Mobile formations consists of Corps, Divisions, Brigade Groups, Independent Brigades, and Brigades. A Corps Headquarters is placed under a Command Headquarters to command two or more Divisions or a combination of a Division, Brigade Groups and Independent Brigades.

(For sector commanders see "Ministry of Defence" in Central Govt. list.)

Navy : The Chief of Naval staff exercises command through the following authorities:

(*a*) The Flag-Officer Commanding-In-Chief, Western Naval Command, Bombay: Covers: Bombay, Okha, Jamnagar and Lonavla.

(*b*) The Flag Officer Commanding-In-Chief, Eastern Naval Command, Visakhapatnam: Covers: Visakhapatnam, Calcutta, Andaman and Nicobar and Madras.

(*c*) The Flag Officer Commanding, Southern Naval Area, Cochin: Covers: Cochin, Coimbatore and Goa.

(For Commanding Officers see "Ministry of Defence" in Central Govt. list.)

Air Force : There are five commands: The Western Air Command (Palam, New Delhi), the Central Air Command (Allahabad, Uttar Pradesh), the Eastern Air Command (Shillong, Assam), the Training Command (Bangalore, Karnataka), and the Maintenance Command (Nagpur, Maharashtra). Some units with distinct functions are controlled by Air Headquarters directly.

(For Commanding Officers see "Ministry of Defence" in Central Govt. list.)

India's Frontiers : The country has to protect 15,168 Kms. of land frontier — 2,966 Kms. with Pakistan; 3,950 Kms. with Bangla Desh; 3,862 Kms. with China; and, 4,390 Kms. with Nepal. Besides it has a coastline of 5,689 Kms.

Planning : After the shortcomings of the 1962 war with China (Oct. 20 — Nov. 21) the need for better planning and modernisation was urgently felt. In 1964 a new type of a roll-on Five Year Plan was put into action with Rs. 62,000 million. Each year, after a review of the progress, the year that has passed is dropped and one more added.

Spending : Rs. 14,083·6 million were earmarked for defence in 1972–73. According to the Institute of Strategic Studies, London, India spends 3·6 per cent of its Gross National Product on defence. In 1962–63 it was 2·9 per cent and in 1971–72 it was estimated at 3·8 per cent. In 1962–63 the defence budget was Rs. 8,600 million. The amount spent on Research and Development has doubled to Rs. 300 million and is expected to reach Rs. 460 million by 1975–76.

In the Fifth Plan (1974-79) the Planning Commission has allotted Rs. 92,600 million for border roads and defence. It would mean defence expenditure will range from Rs. 16,000 million — Rs. 20,000 million. Normally 30 per cent of this expenditure would be on stores and on this basis, by 1979, Rs. 6,000 million of the defence outlay will be on industrial products.

Strength of the forces : India maintains 828,000 men in 25 divisions of the Army. According to Military Balance (brought out by International Institute of Strategic Studies, London) India has 2 armoured divisions (1,350 tanks), 3 independent armoured brigades, 13 infantry divisions, 10 mountain divisions, 6 independent infantry Brigades, and two para brigades.

The Air Force has 45 squadrons — 10 equipped with modern supersonic aircrafts and 5 helicopter squadrons. The squadrons are estimated to comprise of the following (Source: Military Balance):—2 Squadrons of ch. Bombers, 6 Squadrons F/Bombers — Su7, 2 squadrons of F/bombers HF-24, 7 Squadrons F/Bombers of Hunters, 2 Squadrons of F/Bombers Mysteres, 8 interceptor Squadrons of MiG-21 and eight Squadrons of Gnats. The number of combat aircrafts is 625 and personnel 80,000.

The Navy consists of an aircraft carrier, 4 submarines, 2 cruisers, 24 frigates and destroyers and 8 missile boats. Since 1965 the navy has acquired 5 Petya class frigates, 2 tank-landing ships, a submarine depot ship. The navy has 40,000 men.

Weapons : After modernising the small arms in the mid-sixties the Indian army adopted the U.S. anti-tank recoilless rifles — models 57 and 106 mm — as standard weapons. A newer model — 90 mm calibre — has also been designed.

In artillery, the 130 mm Soviet gun has been adopted. The indigenous manufacture of this gun is being given high priority. Indian Research & Development wing has developed a 105 mm calibre field gun the production of which will be a major project in the coming years. The 75 mm mountain gun is also a product of the Indian Research & Development and has already been accepted as the standard mountain artillery.

In anti-aircraft artillery, India produces L/70 Swedish Bofors which is a rather complicated weapon. Other countries have smaller calibre anti-aircraft cannons which are radar directed like our L/70. Some of these guns are mounted on self-propelled chasis along with the radar and generators for greater mobility. India has yet to acquire and manufacture this system of anti-aircraft protection.

Anti-tank Missiles : The SS-11 and ENTAC anti-tank wire-guided missiles are manufactured by **Bharat Dynamics Ltd., Hyderabad.** It is reported that India has acquired from Britain the SEACAT surface-to-air missiles and the shorter range TIGERCAT surface-to-air missiles for anti-aircraft protection. India also has the STYX surface-to-surface liquid-fuelled naval missiles and the SA-2 surface-to-air missiles acquired from the Soviet Union. The Indian Air Forces' MiG-21 are equipped with ATOLL air-to-air infra-red missiles manufactured in India.

The Indian Air Force is the fifth largest in the world with the United States, The Soviet Union, China and Poland making up the first four. The MIG-21s will be in service well into the eighties and may be augmented by the MIG-21 Ms which are to be made in India. India also manufactures "Cheetah" helicopters.

TRAINING CENTRES

Armed Forces Medical College, Pune, Maharashtra: Admits 120 students of whom those who receive a stipend have to serve as short service commissioned officers after training. For the others preference for admission is given to those who will volunteer for service.

Defence Institute of Fire Research, New Delhi 110046 : Trains personnel in the Defence organisation in modern methods of fire fighting and prevention.

Defence Institute of Stores Preservation and Packaging, Delhi. Trains defence personnel in different aspects of preservation and packaging.

Defence Institute of Work Study, Mussoorie, Uttar Pradesh : Conducts work study courses, for defence personnel.

Defence Services Staff College, Wellington, Nilgiri Hills, Tamil Nadu : Conducts a 45-week course for senior officers of the three wings, some civilians and foreign officers in all aspects of staff work.

Indian Military Academy, Dehra Dun, Uttar Pradesh : Cadets from NDA, Khadakvasla and higher age candidates chosen directly are given army training here.

Institute of Armament Technology, Pune, Maharashtra : Trains service personnel and civilian scientific officers in the field of science and technology related to armaments.

Institute of Defence Management, Secunderabad, Andhra Pradesh : Trains service and civilian officers in modern defence management techniques.

Institute of Defence Studies and Analysis, 10, Janapath, New Delhi 110001 : Set up in 1965 it carries out studies, discussions and research on various aspects of national security.

Institute of Nuclear Medicine and Allied Sciences, Probyn Rd., New Delhi 110007: It runs courses on nuclear medicine and technical studies in nuclear, biological and chemical warfare.

Military Schools : There are 5 run by the Defence Ministry, one each at Chail (Punjab) ; Ajmer (Rajasthan) ; Belgaum (Karnataka) ; Bangalore (Karnataka) ; Dholpur (Gujarat). The boys appear for the All India Higher Secondary Examination but are not obligated to appear for the National Defence Academy Examination.

National Cadet Corp, West Block, 4 Ramakrishnapuram, New Delhi 110022 : Set up to stimulate among youth an interest in the defence of the country.

National Defence Academy, Khadakvasla, Maharashtra : Trains boys who wish to join the armed forces as commissioned officers. Age limit is 16-18 years and qualifications higher secondary or equivalent.

National Defence College, Tees January Marg, New Delhi 110011 : Set up in 1960. This college trains officers of the rank of Brigadiers, and its equivalent ranks.

Sainik Schools : Boys between 9-18 are prepared for the NDA entrance examinations in 17 schools run by the Sainik School Society headed by the Defence Minister.

These schools are located at : Nagrola on Tawi near Jammu (Jammu & Kashmir) ; Kapurthala (Punjab) ; Kunjpura near Karnal (Haryana) ; Chittorgarh (Rajasthan) ; Balachadi (Gujarat) ; Satara (Maharashtra) ; Ghorakhal near Naini Tal (Uttar Pradesh) ; Rewa (Madhya Pradesh) ; Tilaiya (Bihar) ; Purulia (West Bengal) ; Bhubaneshwar (Orissa) ; Korukonda (Andhra Pradesh) ; Amaravathinagar (Tamil Nadu) ; Bijapur (Karnataka) ; Kazhakootam (Kerala) ; Goalpara (Assam) ; and Imphal (Manipur).

School of Directorate of Psychological Research, M-Block, New Delhi 110001 : Gives training in selection techniques and methods.

School of Foreign Languages, 11, L. Block, New Delhi 110011 : Teaches Arabic, Burmese, Chinese, French, German, Japanese, Malay/Indonesian, Persian, Russian, Spanish and Tibetan to Service Personnel, government employees and a few civilians. Courses begin in April and August each year.

Schools of Nursing : Army Hospital, Delhi Cantt. ; Central Command Hospital, Lucknow ; I.N.H.S. Ashvini, Bombay ; Air Force Hospital, Bangalore ; Military Hospital, Jullundur ; Military Hospital, Secunderabad ; Eastern Command Hospital, Calcutta ; Western Command Hospital, Chandigarh.

Other training establishments : A number of other specialised training establishments for each wing of the Armed Forces give instructions of special nature. It is not possible to list them all in this Chapter for reasons of space and, because they cater largely to the needs of the personnel already recruited.

Defence Production : Production in eight Public Sector Undertakings was worth Rs. 1,740 million in 1971-72 and it had gone up to Rs. 2,030 million in 1972-73. About 14,427 defence components worth Rs. 1,290 million, which used to be imported prior to 1965, are now being manufactured indigenously.

DEFENCE RESEARCH AND DEVELOPMENT ORGANISATION, S-Block, New Delhi 110011.

There are 2,000 scientists/engineers in this organisation besides the other cadres. They are engaged in 1,100 different studies and projects.

A beginning has been made in the manufacture of missiles. Besides, various items of armaments, electronics and engineering equipment, vehicle, aeronautics, naval sciences, general stores, food technology, medical science etc. are indigenously developed.

Indo-Soviet Friendship Treaty : After 2 years of negotiations the treaty was signed on August 9, 1971.

Aggressions against India

1. First invasion on Kashmir — 23rd October, 1947.
2. Chinese infiltration into Tibet began in 1950.
3. By 1956, Chinese Army had moved along the entire boundary from Ladakh to NEFA.
4. In 1957, China had built roads in the Aksai Chin area.
5. India protested against it on October 18, 1958.
6. In March 1959 China over-ran Tibet and Dalai Lama came to India.
7. Chinese massive attack on the eastern border and Ladakh simultaneously — October 20, 1962.

   Unilateral cease fire by China on midnight November 21/22, 1962.
8. (*a*) Pakistan aggression commenced on April 9, 1965, on Kutch border.

   (*b*) Infiltrators started coming in Jammu and Kashmir on 5th August, 1965.

   (*c*) Pakistani troops entered Mendhar area in Jammu and Kashmir on 22nd August, 1965. Repulsed by India. Indian troops crossed cease fire line on 25th August, 1965.

   (*d*) Cease fire on 23rd September 1965.
9. Tashkent Agreement on 10th January, 1966.
10. Four Pakistani sabre jets intruded into Indian territory on 22nd November, 1971, near Calcutta.

Three of these were shot down. On December 3, 1971, Pakistani aggression on India began with a 'pre-emptive' air strike on several airports from Srinagar to Agra. President Giri declared a state of emergency in the country, and Pakistan launched a full-scale war on India. Hostilities ceased when Pakistan surrendered in Bangla Desh on December 16, 1971 and Prime Minister Indira Gandhi announced a unilateral cease fire on the western front effective 8 p.m. on December 17, 1971.

Losses and Gains of Indo-Pak war of 1971 : India had captured 1,244 sq. kms. in Jammu and Kashmir, 967 sq. kms. in the Punjab and about 12,341 sq. kms. in Kutch and Sind.

Pakistan had occupied 136 sq. kms. in the Chhamb sector of Jammu and Kashmir; 175 sq. kms. in Punjab and 1·30 sq. kms. in Rajasthan.

Following the Simla Agreement the withdrawals from the occupied territories began on 13th December, 1972.

Loss of Lives : About 1,476 Indian officers and men were killed, 4,201 were wounded and 39 are listed missing.

Pakistan's losses were: 5,400 officers and men killed; and 4,675 wounded before 4th December, 1971.

An estimated 3,000 officers and men were killed and 4,300 wounded between December 4 and 16.

Simla Pact : The agreement was signed on July 3, 1972, by President Bhutto and Mrs. Indira Gandhi.

TIME DIFFERENCE

The following table gives the time in the various important cities of the world when it is 5·30 p.m. in India. The calculations are based on Greenwich time i.e. when it is 12 noon at Greenwich, England, it is 5·30 p.m. in India.

Accra, Ghana	12 Noon
Adelaide, Australia	9·30 p.m.
Algiers	1·00 p.m.
Amsterdam, Netherlands	1·00 p.m.
Ankara, Turkey	2·00 p.m.
Athens, Greece	2·00 p.m.
Baghdad, Iraq	3·00 p.m.
Baltimore, U.S.A.	7·00 a.m.
Bangkok, Thailand	7·00 p.m.
Belgrade, Yugoslavia	1·00 p.m.
Berlin, Germany	1·00 p.m.
Berne, Switzerland	1·00 p.m.
Boston, U.S.A.	7·00 a.m.
Brisbane, Australia	10·00 p.m.
Brussels, Belgium	1·00 p.m.
Budapest, Hungary	1·00 p.m.
Buenos Aires, Argentina	9·00 a.m.
Cairo, Egypt	2·00 p.m.
Calgary, Canada	5·00 a.m.
Canberra, Australia	10·00 p.m.
Cape Town, South Africa	2·00 p.m.
Chicago, U.S.A.	6·00 a.m.
Colombo, Ceylon	5·30 p.m.
Copenhagen, Denmark	1·00 p.m.
Darwin, Australia	9·30 p.m.
Detroit, U.S.A.	7·00 a.m.
Dublin, Ireland	12 Noon
Freetown, Sierra Leone	12 Noon
Gibraltar	1·00 p.m.
Halifax, Nova Scotia	8·00 a.m.
Hamilton, Bermuda	8·00 a.m.
Havana, Cuba	7·00 a.m.
Helsinki, Finland	2·00 p.m.
Hong Kong	8·00 p.m.
Honolulu, Hawaii	2·00 a.m.
Jerusalem, Israel	2·00 p.m.
Johannesburg, S. Africa	2·00 p.m.
Karachi, Pakistan	5·00 p.m.
Kingston, Jamaica	7·00 a.m.
Kuala Lumpur, Malaya	7·30 p.m.
Lagos, Nigeria	1·00 p.m.
Leningrad, U.S.S.R.	3·00 p.m.
Lima, Peru	7·00 a.m.
Lisbon, Portugal	12 Noon
London	12 Noon
Los Angeles, U.S.A.	4·00 a.m.
Luxembourg	1·00 p.m.
Madrid, Spain	1·00 p.m.
Mandalay, Burma	6·30 p.m.
Melbourne, Australia	10·00 p.m.
Mexico City	6·00 a.m.
Montevideo, Uruguay	9·00 a.m.
Montreal, Canada	7·00 a.m.
Moscow, U.S.S.R.	3·00 p.m.
Nairobi, Kenya	3·00 p.m.
New York	7·00 a.m.
Nicosia, Cyprus	2·00 p.m.
Oslo, Norway	1·00 p.m.
Ottawa, Canada	7·00 a.m.
Panama	7·00 a.m.
Paris	1·00 p.m.
Peking, China	8·00 p.m.
Perth, Australia	8·00 p.m.
Port of Spain, Trinidad	8·00 a.m.
Prague, Czechoslovakia	1·00 p.m.
Quebec, Canada	7·00 a.m.
Quito, Ecuador	7·00 a.m.
Reykjavik, Iceland	11·00 a.m.
Rio de Janeiro	9·00 a.m.
Rome	1·00 p.m.
St. John's, Newfoundland	8·30 a.m.
Salisbury, Southern Rhodesia	2·00 p.m.
San Francisco, U.S.A.	4·00 a.m.
Santiago, Chile	8·00 a.m.
Seoul, Korea	8·30 p.m.
Singapore	7·30 p.m.
Stalingrad, U.S.S.R.	4·00 p.m.
Stockholm, Sweden	1·00 p.m.
Sofia, Bulgaria	2·00 p.m.
Suva, Fiji	12 Midnight
Sydney, Australia	10·00 p.m.
Teheran, Iran	3·30 p.m.
Tirana, Albania	1·00 p.m.
Tokyo, Japan	9·00 p.m.
Toronto, Canada	7·00 a.m.
Vancouver, Canada	4·00 a.m.
Vienna, Austria	1·00 p.m.
Warsaw, Poland	1·00 p.m.
Wellington, New Zealand	12 Midnight
Winnipeg, Canada	6·00 a.m.

LABOUR

Working Population : The total working population was 139·5 million in 1951; 188·4 million in 1961; 212 million in 1970; and is expected to reach 280 million in 1980.

Employment : According to the 1971 census 72 per cent of the working population is engaged in the primary sector, 11·1 per cent in the secondary sector and 16·7 per cent in the tertiary sector.

The occupational structure of the rural working population also reveals that 84·8 per cent are dependent on agriculture and allied activities, 6·6 per cent on mining, manufacturing and household industry and only 8·5 per cent in trade, commerce and other services.

In the urban sector 54·9 per cent are engaged in the tertiary sector and only 32·3 per cent finds employment in the secondary sector.

Classification of working population

(Figures in Million)

	TOTAL		Rural		Urban	
	No.	Per Cent	No.	Per Cent	No.	Per Cent
Total workers	**180·37**	**100**	**148·37**	**100**	**32·00**	**100**
Primary Sector :						
Cultivators	78·18	43·3	76·54	51·6	1·63	5·1
Agro Labour	47·49	26·3	45·57	30·7	1·92	6·0
Livestock, Forestry, Fishery etc. ..	4·30	2·4	3·76	2·5	0·54	1·7
Sub-Total	129·96	72·0	125·87	84·8	4·09	12·8
Secondary Sector:						
Mining & Quarrying	0·92	0·5	6·0	0·4	0·32	1·0
Household Industry	6·35	3·5	4·76	3·2	1·59	5·0
Other than Household Industry ..	10·72	5·9	3·40	2·2	7·31	22·8
Construction	2·21	1·2	1·10	0·8	1·12	3·5
Sub-Total	20·21	11·1	9·86	6·6	10·34	32·3
Tertiary Sector :						
Trade & Commerce	10·04	5·6	3·62	2·4	6·41	20·0
Transport, Storage & Communications	4·40	2·4	1·21	0·8	3·19	10·0
Other Services	15·76	8·7	7·80	5·3	7·96	24·9
Sub-Total	30·21	16·7	12·63	8·5	17·56	54·9

Source : Census of India 1971 Series 1.

Sex Break-up : The sex-wise break-up of the working population shows that 82·6 per cent of the total workers are male and 17·4 per cent female.

Age Break-up : 5·9 per cent of the total workers are children in the age group 0 to 14 whilst 7·8 per cent are over the age of 60. The social reality is that nearly 10·8 million children are labourers despite the law against child labour, whilst lack of old age security compels people to work beyond the retirement age.

EMPLOYMENT AND TRAINING

Employment Exchanges : The number of employment exchanges at the end of June, 1974, were 532 which includes 15 professional and executive employment offices and 13 special employment exchanges for physically handicapped. In addition 54 University Employment Information and Guidance Bureaux were also functioning.

Employment of Handicapped : Special Employment offices for the physically handicapped are at present functioning at Bombay, Delhi, Madras, Hyderabad, Calcutta, Kanpur, Bangalore, Ahmedabad, Chandigarh (Punjab & Haryana separately), Trivandrum, Patna and Jabalpur. In addition Vocational Rehabilitation Centres are at present functioning, one each at Bombay, Hyderabad, Delhi, Kanpur, Jabalpur and Ludhiana for vocational evaluation and imparting adjustment training to physically handicapped persons.

Situation in 1972: Employment in the organised sector went up from 17·49 million at the end of March, 1971, to 17·97 million at the end of March, 1972, an increase of 2·8 per cent the highest rate attained during the last five years. The growth rate in 1970-71 was roughly about 2·5 per cent.

Public Sector : Employment in the public sector which accounted for slightly more than 62 per cent of the total increased by 3·9 per cent during 1971-72 against 3·4 per cent in the previous year. An analysis of the different branches shows employment in quasi-government establishments continued to record the highest growth rate — 9 per cent in 1971-72.

Among Central Government establishments and local bodies also employment growth rates were higher during the year under review — 2·5 per cent and 2 per cent respectively, against 1·7 and 1·1 per cent in the previous year.

However, the growth rate in the State Government establishments fell from 3·9 per cent in 1970-71 to 3·1 per cent in 1971-72.

In absolute terms, employment in the public sector edged up from 10·73 million in March, 1971, to 11·20 million in March, 1972.

Private Sector : In the private sector the quantum of employment remained almost static with a fractional increase of 0·1 per cent over the preceding year. The small growth is due to the transfer of 68,000 workers in the coking coal mines to the public sector.

EMPLOYMENT IN PUBLIC AND PRIVATE SECTORS

(Numbers in million)

As at the end of March	PUBLIC SECTOR					Private Sector	Grand Total
	Central Govt.	State Govt.	Quasi Govt.	Local bodies	Total		
1962	2·186	3·087	0·879	1·365	7·417	5·160	12·577
1972	2·841	4·282	2·171	1·915	11·209	6·769	17·978

EMPLOYMENT INDUSTRYWISE

(No. in million)

Year	Plantation, forestry etc.		Mining and quarrying		Manufacturing		Construction	
	Govt.	Private	Govt.	Private	Public	Private	Public	Private
1962	0·174	0·740	0·145	0·480	0·421	3·050	0·641	0·180
1972	0·283	0·810	0·255	0·350	0·870	3·970	0·915	0·170

EMPLOYMENT INDUSTRYWISE — (*Contd.*)

(No. in million)

Year	Electricity		Trade & Commerce		Transport & Communications		Service		TOTAL	
	Public	Private	Public	Private	Public	Private	Public	Private	Public	Private
1962	0·234	0·040	0·109	0·190	1·797	0·120	3·896	0·360	7·417	5·160
1972	0·458	0·050	0·374	0·300	2·249	0·080	5·785	1·030	11·209	6·769

In absolute terms employment increased marginally from 6·76 million in March, 1971 to 6·77 million at the end of March, 1972.

Unemployment: No reliable estimates of unemployment in the country are available. According to the Committee on Unemployment, set up by the Ministry of Labour and Rehabilitation, there were 18·7 million unemployed persons in India of which 9 million were totally unemployed and 9·7 million had work for less than 14 hours a week. This included 16·1 million in rural areas and 2·6 million in the urban areas.

However, current unemployment is estimated by unofficial sources at 30 million with an annual accretion of about 7 million job-seekers. The creation of new jobs is limited to 20 million in a decade.

It is estimated unemployment will be around 65 million by 1981.

Live registers of the employment exchanges show there were 6·9 million job-seekers in December, 1972. In April, 1973, this figure had increased to 7·3 million.

An estimated 3·3 million of the job-seekers were educated.

The State-wise break-up of the job-seekers indicates that the largest number were in West Bengal — 1·38 million ; followed by Uttar Pradesh — 810,000 ; Bihar — 710,000 ; Maharashtra —600,000 ; Tamil Nadu — 480,000; and Kerala — 450,000.

Job Schemes: Official statistics show that only less than 20 per cent of the target set under the half-a-million jobs programme had been achieved. Of the planned outlay of Rs. 700 million about Rs. 340·5 million was spent until August 1974. The employment generated was only 92,000 under the programme, launched as part of self-employment schemes initiated by the government.

The employment promotion programme, is estimated to have created jobs for 68,159 people. Besides, 4,391 engineers were stated to have been trained as young entrepreneurs. Training was also provided to 1,718 people in agro-service centres.

The figures show that the beneficiaries of package assistance to educated unemployed numbered 89,000.

The main objective of the schemes was intended to create productive and self-generating employment with a minimum investment of government funds on training, seed capital etc.

Job Seekers : As for job-seekers, as on July 1, 1974 (the latest available figures) about 270,000 graduates wanted employment. These included graduates and post-graduates in education (56,283), engineering (20,614), medicine (6,506) and agriculture (9,088).

While all those on the live rolls were not necessarily unemployed, the maximum number (339,000) were arts graduates, followed by science graduates (226,069) and commerce graduates (104,899).

Industrial Relations : Loss of production due to industrial disputes is very large. In 1974, the total man-days lost for various reasons aggregated 31·2 million, a sharp rise of 50 per cent over the previous year's 20·5 million.

In 1974 the Public Sector lost 7·7 million man-days more than twice the 1973 figure. The Private Sector lost 23·5 million man-days, an increase of about 35 per cent over the pervious year.

MAN-DAYS LOST PER WORKER

(Million)

	Public Sector		Private Sector		Total
	Per worker	Total	Per worker	Total	Total man-days lost
1967	0·26	2·5	2·19	14·6	17·1
1968	0·20	2·0	2·34	15·2	17·2
1969	0·14	1·4	2·87	17·6	19·0
1970	0·20	2·0	2·76	18·5	20·5
1971	0·21	2·2	2·11	14·3	16·5
1972	0·30	3·3	2·55	17·1	20·4
1973	0·27	3·3	2·56	17·2	20·5
1974*	0·61	7·7	3·48	23·5	31·2

* Estimated.

Employees State Insurance Corporation: (See Chapter on All India Corporations).

Labour Education & Training: (See Chapter on Education).

Employees' Provident Funds and Family Pension Fund Act, 1952.

The Employees' Provident Funds and Family Pension Fund Act is applicable to an establishment which has 20 or more employees on its muster roll and has completed five years since inception, or an establishment which has 50 or more employees and completed 3 years since inception. The minimum percentage of contribution payable both by the employers and employees is 6¼ per cent of 'Pay'. The rate is 8 per cent in respect of establishments employing 50 or more persons and engaged in any of the industries/classes of establishment specified in this behalf.

Those employees of covered establishments who have put in one year's continuous service or 240 days actual work during a period of 12 months or less or have been declared permanent in any such factory or other establishment are eligible to become members of the Employees' Provident Fund.

Basic Statistics: (Figures as on March 31, 1974)

No. of industries covered : 131 ; No. of covered establishments (both exempted and un-exempted) : 60,350 ; No. of subscribers : 6·8 million ; Amount of Provident Fund Contributions collected (including interest and other receipts) : Rs. 32,003·2 million ; Amount paid as loans, advances, in final settlement of claims, etc. : Rs. 11,900·1 million ; Amount invested in Government and other securities : Rs. 20,356·4 million ; Total contribution including interest and other receipts during 1973-74 : Rs. 4,619·1 million, as against Rs. 4,238·8 million in 1972-73 ; No. of unexempted establishments covered under the Act upto the end of March, 1974 : 57,842 ; No. of subscribers in such establishments : over 4·3 million ; Total accumulations of Provident Fund in such establishments : Rs. 13,270·0 million ; (including interest on investment and penal damages) ; Amount of Provident Fund invested in respect of such establishments : Rs. 9,482·7 million ; Rate of interest at present on members' contributions : 6·5 per cent per annum (1974-75).

Indianisation: The process of Indianisation of superior positions in foreign owned controlled companies carrying total monthly emoluments exceeding Rs. 2,000 has registered further progress.

The number of Indians employed by foreign companies rose by nearly four times in 10 years, from 3,161 on January 1, 1963, to 11,116 on January 1, 1973. During the period, the number of non-Indians declined to less than one-fourth 2,934 to 726.

In January 1973, there were 6,388 Indians and 44 non-Indians working with foreign companies on salaries ranging from Rs. 2,001 to Rs. 3,000 as compared to 5,566 Indians and 72 non-Indians a year ago.

During the same period, the total number of Indians drawing emoluments between Rs. 3,000 and Rs. 5,000 increased from 3,487 to 3,683 and the non-Indians declined from 208 to 78.

In the salary group of Rs. 5,000 to Rs. 7,000 the number of Indians increased to 789 and the number of non-Indian employees decreased from 228 to 202.

TRADE UNIONS

Indian National Trade Union Congress: 17, Janpath, New Delhi-110001.

Established : 3-5-1947.

Regional Offices : 27, Military Square Lane, Fort, Bombay-400001 ; 177/B, Acharya Jagdish Bose Road, Calcutta-700014 ; 2/44, Royapettah High Road, Madras-600014.

Total Membership : 2,122,346.

Number of Affiliated Unions : 2,322.

Present Office-bearers :

President : B. C. Bhagwati, M.P.

General Secretary : G. Ramanujam.

Treasurer : C. M. Stephan, M.P.

Official Publication : 'Indian Worker', Weekly.

Editor : H. D. Mukerji.

All-India Trade Union Congress: 24, Canning Lane, New Delhi-110001.

Established : 31-10-1920.

Regional Offices : Shivshakti, Dr. A. Besant Rd., Bombay-400018 ; 144 Lenin Sarani, Calcutta-700013.

Total Membership : 2,057,518.

Number of Affiliated Unions : 3,678.

Present Office-bearers :

President : Dr. Ranen Sen, M.P.

Vice-Presidents : Indrajit Gupta, M.P. ; M. S. Krishnan, M.L.A. ; B. D. Joshi ; Mohd. Elias ; Chaturanan Mishra, M.L.A. ; J. Chittaranjan.

General Secretary : S. A. Dange.

Secretaries : K. G. Srivastava ; Parvathi Krishnan ; N. C. Dutta ; T. N. Siddhanta ; Y. D. Sharma.

Treasurer : Dr. Raj Bahadur Gour.

Hind Mazdoor Sabha: Nagindas Chambers, 167, P. D'Mello Road, Bombay-400001.

Established : 1948.

Regional Offices : Satyagiri, Dadasaheb Phalke Rd., Dadar 400014 ; 35/B, Nirmal Chander Street, Calcutta-700013 ; 13-B, Second Line Beach, Madras-600001.

Total Membership : 1,144,164.

Number of Affiliated Unions : 525.

Present Office-bearers :

President A. Subramaniam.

Gen. Secretary : Mahesh Desai.

Treasurer : Kisan Tulpule.

Secretaries : Ram Desai, Vasant Kulkarni.

United Trades Union Congress: 249, Bepin Behari Ganguly Street, Calcutta-700012.

Established : By late Mrinal Kanti Bose, late K. T. Shah and Jatin Chakravorty in the year 1949.

Regional Offices: 780, Ballimaran, Delhi-110011 ; 11, Mc Leen Street, Madras-600001 ; 119/75, Darshanpurwa, Kanpur-208012 ; Cantonment, Quilon ; Jakkanpur, New Area, Patna-800001 ; 5th Road, Santa Cruz East, Bombay 400055.

Total Membership : 362,087.

Number of Affiliated Unions : 457.

Present Office-bearers :

President : N. Srikantan Nair.

Vice-Presidents : Tridib Chaudhury, Jayram Shetty, S. V. R. Acharia and Thakur Mukund Singh Vaid.

General Secretary : Jatin Chakravorty.

Secretaries : Baby John and Durga Bagchi.

Treasurer : Sunil Sengupta.

All-India Port and Dock Workers' Federation : Port Shramik Bhawan, 26, Dr. Sudhir Basu Road, Calcutta-700023.

Established : By P. D'Mello and Sibanlal Saxena in the year 1948.

Regional Offices : P. D'Mello Bhawan, Second Floor, P. D'Mello Road, Carnac Bunder, Bombay-400001; 18, Krishnan Koil Street, George Town, Madras-600001.

Total Membership : 175,000.

Number of Affiliated Unions : 26.

Present Office-bearers :

President : S. R. Kulkarni.

Vice-Presidents : S. C. C. Anthony Pillai; Dr. S. Maitra; Dr. Shanti Patel; M. K. Raghavan and Nishamoni Khuntia.

General Secretary : Makhan Chatterjee.

Organising Secretary : K. A. Khan.

Assistant Secretary : G. D. Ball.

Treasurer : B. Dharma Rao.

Rashtriya Mill Mazdoor Sangh : Mazdoor Manzil, G. D. Ambedkar Marg, Parel, Bombay-400012.

Established : By late G. D. Ambedkar on 19-5-1940.

Total Membership : 100,000.

Present Office-bearers :

President : Rajni Patel.

Vice-Presidents : A. T. Bhosale, G. B. Nare, K. S. Mohite.

Gen. Secretary : V. R. Hoshing.

Secretaries : S. S. Surve, A. L. Parab, M. L. Paradkar, A. N. Likhate, R. Y. Walawalkar, S. M. Jadhav, G. B. Parab, Y. R. Khanvilkar, D. S. Pawaskar, D. S. Bhilare, M. P. Thorat, V. B. Arolkar, R. D. Hulawale.

Treasurer : Miss E. D'Souza.

ENERGY CRISIS

ENERGY is a threefold problem in India. There is a shortage of petroleum because its imports have become too costly; there is a shortage of electricity partly because diesel oil has become a precious commodity and the vagaries of the weather make other forms of generation very erratic; there is also the shortage of coal due to antiquated mining methods and the high cost of transporting it to distant thermal power stations.

The solution of the energy crisis has, therefore, to be a concerted three-pronged attack. To make a beginning in this direction the Government of India has, for the first time, established an Energy ministry. (See Government of India Personnel).

Energy from oil accounts for only 8 per cent of the power consumed. However, since 90 per cent of the oil is used as economic inputs, it is difficult to cut imports. In 1973-74 India imported 16 million tonnes of the total requirement of 23 million tonnes. In addition 2·5 million tonnes of oil products were directly imported.

On January 1, 1974, the price per barrel of crude rose from $3·65 to almost $10. Oil bought by oil companies (apprx. 6 million tonnes) costs $8·65 per barrel whilst oil bought on a government to government basis costs $10·32 per barrel. India imports 11 million tonnes from Iran and most of the rest from Iraq and Saudi Arabia.

Petrol accounts for only 6 per cent of the consumption of oil products in India whilst fuel oil, diesel and kerosene account for 70 per cent. It has been estimated that a 25 per cent drop in consumption of petrol could mean an additional 850,000 tonnes of urea. (For more details see chapter on Petroleum Industry.)

On January 1, 1974, when the posted price of light Arabian crude was increased from $5·036/bbl to $11·651/bbl the world was faced with an energy crisis. The overall effect of this increase on India is crippling.

The average FOB price of imported crude oil today is $10/bbl against $2/bbl in 1973. Whereas the import of crude oil and refined products in 1973 amounted to Rs. 3,414·10 million the import bill for the same products in 1974–75 was estimated at Rs. 13,000 million. (For further details please see chapter on Petroleum Industry).

POWER GENERATION : (See also chapter on Irrigation and Power) The following chart gives in details the allocations, expenditures and shortfalls in power generation :

Plan	Financial outlays		Installed generating capacity (mKW)				
	Plan allocations	Actual expenditure	Cumulative		Additions		Percentage shortfall
	(Rs. million)		Target	Achievement	Target	Actual	
Pre First Plan	N.A.	N.A.	..	2·30	..	..	..
First Plan (1951-56)	N.A.	1,050	3·60	3·40	1·30	1·10	15·4
Second Plan (1956-61)	2,350	2,500	6·90	5·65	3·50	2·25	35·7
Third Plan (1961-66)	7,120	7,739	12·69	10·17	7·04	4·52	35·8
Three Annual Plans (1966-69)	6,430	6,762	15·60	14·29	5·43	4·12	24·1
Fourth Plan (1969-74)	12,540	15,550*	23·00	18·87*	9·26	4·58	50·0

* Anticipated. N. A. Not available.

SOURCE : Draft Fifth Five Year Plan, Vol. II, Planning Commission, Government of India.

Power shortage is predicted to outlive the Fifth Plan period.

According to a survey, only the eastern region will have a comfortable power position by the end of the Fifth Plan (1979). The northern region will continue to suffer a shortage during peak hours of demand but it will have a surplus during the day which will be transferred to the western region.

In the western region there will be a severe shortage of electrical energy right through the Plan. In the south, except for Kerala which will continue to have surplus power, the other states will suffer shortages as in the western region.

Reasons : Plan targets have consistently fallen behind schedule. The slippage in the First Plan was 20 per cent; in the Second Plan 36 per cent; in the third Plan 35 per cent; during the three annual plans 38 per cent, and in the Fourth Plan 54 per cent.

Slippages are due mainly to cost escalations. Costs of power projects increase by 100 to 150 per cent before they are completed eating up the Plan allocations.

Poor maintenance of plants is another reason for power shortages. Instead of periodic maintenance checks and repairs plants are allowed to run till they completely breakdown. The problems of finding the spares and getting foreign exchange for their imports takes up as much as two years.

Poor productivity and high loss of power in transmission are also additional problems. Thermal units in the country produce only 47 per cent of their installed capacity whilst losses in transmission take another 10 per cent.

Remedies: As an immediate measure the Energy Ministry hopes to raise the efficiency of thermal units to between 60 and 70 per cent.

The Bharat Heavy Electricals Ltd., is to devote one fifth of its capacity to the production of spare parts for power stations.

Training of maintenance engineers is to be taken up immediately.

A control room has been set up in the Central Water and Power Commission to keep daily track of the operation of power plants throughout the country and locating and identifying difficulties in individual large generating sets.

In view of the oil crisis a number of measures have been taken to minimise the secondary oil consumption in all thermal power stations and for converting the oil burning stations to coal burning wherever possible.

Power Cuts: Cuts on power consumption during 1974–75 ranged between 25 per cent in Maharashtra to 60 per cent in Tamil Nadu, Punjab, Haryana and Delhi.

Nuclear Power : In the Fourth Plan the commissioning of three plants was envisaged: Tarapur (400 MW); Ranapratapsagar (400 MW) and Kalapakkam (470 MW). However, only Tarapur and one unit of the Ranapratapsagar were completed. Over 40 per cent of the nuclear capacity has slipped into the Fifth Plan. (See Chapter on Atomic Energy).

In the months March to June 1973 there were frequent breakdowns in the Tarapur plant attributed to extreme heat and other atmospheric conditions leading to tripping of wires.

Fifth Plan Projections : It is proposed to raise the installed capacity to 33 mKW by 1978-79 by adding 16·55 mKW of new capacity. 15·14 mKW is expected to be added through State programmes, 0·706 mKW by the Ministry of Irrigation and Power and 0·705 mKW by the Department of Atomic Energy.

The break-up of the type of plants is as follows : Hydro—6,423 MW; Thermal—9,200 MW; Nuclear—705 MW. By 1978-79 the demand, which will be about 28 million KW, is expected to be fully met.

A sum of Rs. 61,900 million (16 per cent of the total development outlay) has been allotted, of which Rs. 33,220 million is for generation; Rs. 20,970 million for transmission and Rs. 10,980 million for rural electrification. The States will spend Rs. 53,430 million and the Centre Rs. 7,380 million.

A special feature will be the introduction of 17,200 MW thermal generating sets to be installed in large capacity thermal stations located in coal fields to restrict transport of coal to the minimum.

The Atomic Energy Commission proposes to introduce the prototype 40 MW Fast Breeder Thermal Reactor it has been developing at Kalapakkam. However, for technical reasons the introduction of these FBTR's must await the creation of the National Water Grid.

Crash Coal Plan : The Government has formulated a crash programme to increase coal production from the present 80 million tonnes to 145 million tonnes by 1978-79 (the last year of the Fifth Plan) at the rate of 12 million tonnes annually. Of this, 115 million tonnes are expected to come from the expansion and restructuring of the existing mines and the rest from new mines, like Singareni in the South, and other deposits in Central India. The government proposes to use the Soviet method of open cast mining for quicker production.

However, during 1974–75 the production of coal was 88 million tonnes against a demand of 90 million tonnes. The production target for 1975–76 has been set at 100 million tonnes. Although during the year under review the Railways had improved their daily loadings of coal wagons the position of coal supply remained critical. The Western Railways had to cancel trains for lack of coal; only 13 of the 36 major cement units had three weeks stocks of coal. 12 of them had only two weeks supply; and the steel plants had only 6 days supply. (Also see chapter on Mines and Minerals).

Transportation : To tackle the bottlenecks a " Control Room " has been set up in the offices of the Railway Board to monitor day-to-day supplies to the thermal stations.

Non-Commercial Fuels : The rural population (80 per cent of the total) rely mainly on non-commercial fuel for its cooking and lighting requirements. The most common non-commercial fuels are vegetable waste, cattle waste, firewood and forest waste. Of the estimated demand of 431 million tonnes of fuel (in terms of coal replacement) by 1978-79, fire-wood and forest waste will supply one third of the requirements, vegetable waste 44 million tonnes and cattle waste 22 million tonnes.

In an effort to put the 400 million tonnes of cowdung burnt annually to greater utility, the Khadi and Village Industries Commission is immediately setting up 20,000 gobar gas plants spread over 2,000 blocks. At present there are 6,250 of these plants in the country. These plants will produce methane gas for cooking and lighting and organic fertiliser equivalent to eight times the production of the Sindri Fertiliser Factory. (See Chapter on Fertiliser Industry.)

The Irrigation and Power Ministry has sought a grant of Rs. 7 million to explore the possibilities of creating energy from hot springs in Himachal Pradesh, West Maharashtra and Ladakh.

AWARDS AND PRIZES

INCLUDING the 1975 awards, the number of persons who have received Bharat Ratna is 16, Padma Vibhushan 79, Padma Bhushan 375 and Padma Shri 786.

The highest award Bharat Ratna is given for exceptional work for the advancement of art, literature and science and in recognition of public service of the highest order.

The 16 persons who have received Bharat Ratna are: **1954:** Mr. Jawaharlal Nehru; Mr. C. Rajagopalachari; Dr. S. Radhakrishnan; Dr. C. V. Raman; **1955:** Dr. Bhagwan Das; Dr. M. Visvesvarayya; **1957:** Pandit Govind Ballabh Pant; **1958:** Dr. D. K. Karve; **1961:** Dr. B. C. Roy; Mr. Purushottam Das Tandon; **1962:** Dr. Rajendra Prasad; **1963:** Dr. Zakir Hussain; Dr. P. V. Kane; **1966:** Mr. Lal Bahadur Shastri (Posthumous); **1972:** Smt. Indira Gandhi; **1975:** Mr. V. V. Giri.

R-DAY AWARDS

Padma Vibhushan (Since 1970)

Services: **1970:** Group Capt. S. Das (posthumous); Gen. P. P. Kumaramangalam; Lt. Gen. Harbakhsh Singh; **1972:** Gen. Sam Hormusji Framji Jamshedji Manekshaw; Admiral Sardarilal Nanda; Air Chief Marshal P. C. Lal.

Industrialists: **1970:** Dr. A. Ramaswami Mudaliar; **1971:** Mrs. Sumati Morarjee.

Medicine: **1971:** Dr. V. N. Shirodkar.

Public Servive: **1970:** Dr. B. R. Sen, A. L. Dias; **1971:** B. Sivaraman, B. P. Chaliha; **1972:** Dr. Aditya Nath Jha (Posthumous), Ghulam Mohammed Sadiq (Posthumous), Hormusji Maneckji Seervai, Dr. Jivraj Narain Mehta, Dr. Prahlad Balacharya Gajendragadkar; **1973:** Dr. D. S. Kothari, Dr. Nagendra Singh, T. Swaminathan; **1974:** Harish Chandra Sarin, Niren De, Dr. Vijendra Kasturi Ranga Varadaraja Rao; **1975:** C. D. Deshmukh.

Artistes: **1971:** Ustad Allauddin Khan, Uday Shankar; **1974:** Binode Behari Mukherjee; **1975:** M. S. Subbulakshmi.

Education: **1970:** Dr. Tara Chand; **1975:** Dr. B. D. Nag Chaudhury, Dr. (Mrs.) Premlila Vithaldas Thakersey.

Freedom Fighters: **1973:** Mrs. Basanti Devi, Mrs. Nellie Sen Gupta, U. N. Dhebar.

Scientists: **1975:** Dr. H. N. Sethna, Dr. Raja Ramanna.

Social Worker: **1975:** Mrs. Mary Clubwalla Jadav.

Padma Bhushan

Social Work: **1970:** A. V. "Annasaheb" Sahasrabudhe, N. S. Kajrolkar, Miss S. Saini; **1971:** G. D. Bhatt; **1972:** Mrs. Gulestan Rustom Billimoria, Madhavraoji Khanderao Bagal, Mrs. Yashodhara Dasappa; **1973:** N. R. Malkani, Vennelakanti Raghavaiah; **1974:** Bishop John Richardson; **1975:** Mrs. Durgabai Deshmukh.

Industrialists: **1970:** N. M. Wagle; **1971:** B. D. Garware, D. W. Shah, K. N. Mookerjee, M. R. Jaipuria, M. J. Patel, V. R. Mohan; **1972:** Amrut Vithaldas Mody, Dr. Bharat Ram, Maheshwar Dayal; **1973:** Dr. Raja Muthiah Annamalai Muthiah Chettiar; **1975:** Phirozeshah Ardeshir Narielwala.

Artists: **1970:** Ahmad Jan Thirakawa, Mrs. Heerabai Barodekar, Mrs. Kamala, Ramkinkar Baiz, Sombhu Mitra; **1971:** Amir Khan, Mrs. D. K. Pattammal, Mrs. Gangubai Hangal, Jaishankar Sundari, K. Phulambrikar alias Maste, Krishnarao, M. S. Iyer, Nisar Husain Khan, Palghat T. S. Mani Iyer, P. K. Kunju Kurup, Raj Kapoor; **1972:** Birendra Nath Sircar, Papanasam Ramayya Sivam, Vinayakbuwa Patwardhan; **1973:** Chembai Vaidyanatha Bhagavathar, Krishna Rao Shankar Pandit, Maqbool Fida Husain; **1974:** Dr. Alice Bonner, B. Narasimha Reddy, Chintamani Kar, Dhiren Ganguli, Habibur Rehman, Thakur Jaideva Singh, Mrs. Mogubai Kurdikar; **1975:** Begum Akhtar (Posthumous).

Literateurs: **1970:** Dr. Amiya Chakravarty, B. Boser Gurram Joshuva, Dr. S. A. Latif, Dr. V. Satyanarayana, Yashpal; **1971:** Anant Vithal *alias* Dhananjay Keer, B. C. Verma, J. K. Jain, K. C. Panigrahi, N. R. Pillai, Prof. P. Sambamoorthi; **1972:** Adya Rangacharya; **1973:** Harindranath Chattopadhyaya; **1974:** Dr. Devanahalli Venkataramaiah Gundappa; **1975:** Balai Chand Mukhopadhyaya.

Medicine: **1970:** Dr. M. P. Mehray, Dr. P. N. Wahi; **1971:** Dr. B. Mukhopadhyaya, Dr. M. M. Singh, Dr. S. K. M. Mukerjee, Dr. S. J. Mehta, Dr. D. V. Ramalingaswami; **1972:** Dr. Baldev Singh, Dr. Bhalchandra Nilkanth Purandare, Dr. Lakhumal Hiranandani, Dr. Shantilal Chhaganlal Sheth; Dr. Sujoy Bhushan Roy; **1974:** Dr. Ramkumar Caroli; **1975:** Dr. Darab Jehangir Jussawalla.

Educationists: **1970:** Dr. B. N. Ganguli, Dr. P. K. Kelkar, T. S. A. Chettiar; **1971:** N. R. Ayyar, Dr. Suraj Bhan, Dr. V. S. Jha; **1972:** Dr. Jai Krishna, Dr. Mohinder Singh Randhawa; **1974:** Prof. Bhupati Mohan Sen, Dr. Camille Bulcke, Hasmukh Dhirajlal Sankalia, Jayant Pandurang Naik, Dr. Ram Viswanathan, Sukhlalji Sanghavi, Prof. Toppur Seethapathy Sadasivan, Dr. Vasant Shankar Huzurbazar; **1975:** Prof. Kirpal Singh Narang, Dr. Pratul Chandra Gupta, Mrs. Rattam Shastri, Dr. Vasudev Vishnu Mirashi.

Scientists: **1970:** Dr. K. Ramiah, Dr. M. S. Krishnan; **1971:** Dr. P. V. Sukhatme, Dr. S. Dhawan; **1972:** Prof. Dattatreya Yeshwant Phadke, Prof. L. A. Krishna Iyer, M. B. Ramachandra Rao, Dr. Pran Nath Chhutani, Prof. Ram Narayan Chakravarti; **1973:** Dr. Raja Ramanna, Ramakant Maheshwar Mazumdar, Dr. Om P. Bahl; **1975:** Dr. P. K. Iyengar, Dr. (Smt.) Asima Chatterjee.

Public Service: **1970:** Bhagwantrao A. Mandloi, G. A. Narasimha Rao, Hans Raj Gupta, M. R. Brahmam; **1971:** J. C. De, K. L. Vij, M. N. Chakravarti, Dr. P. L. Verma, R. M. Deshmukh, Dr. S. C. Roy; **1972:** Ayyagiri Sambasiva Rao, Dr. Bal Dattatreya Tilak, Benoy Bhushan Ghosh (Posthumous), Chandrika Prasad Srivastava, Mohmad Yayath, Dr. M. S. Swaminathan, Nori Gopala Krishnamurti, Tonse Ananth Pai; **1973:** Mrs. G. M. Sorabji, S. K. Mukherjee; **1974:** Dr. A. Sreenivasan, Dr. Moti Chandra; **1975:** Dr. Dilbagh Singh Athwal, Dr. Madhav Sadashiv Gore, Dr. Pancheti Koteswaram, R. C. P. Noronha.

Journalists: **1970:** R. L. Joshi, V. Mukhopadhyaya; **1971:** K. M. Cherian, R. K. Laxman; **1972:** Prof. Krishnaswami Swaminathan, Pothen Phillip; **1973:** Banarsi Das Chaturvedi, K. Sukumaran, Pothen Joseph (Posthumous); **1974:** Khushwant Singh.

Services: **1972:** Lt.-Gen. G. Bewoor, Lt. Gen. K. P. Candeth, Lt.-Gen. Jagjit Singh Aurora, Lt.-Gen. Sartaj Singh, Lt.-Gen. K. K. Singh, Lt.-Gen. Sagat Singh, Lt.-Gen. T. N. Raina, Maj.-Gen. I. S. Gill, Vice-Admiral S. N.

Kohli, Vice-Admiral N. Krishnan, Air Marshal M. M. Engineer, Air Marshal H. C. Dewan.

Border Security Forces : **1972 :** Dir.-Gen. K. F. Rustomji, Insp.-Gen. Aswini Kumar.

Sports : **1973 :** Vinoo Mankad ; **1975 :** Raj Kumar Khanna.

Padma Shri

Services : **1972 :** Brig. Harish Chandra, Maj. Harsh Vadhan Bahuguna (Posthumous), Om Prakash Bahl, Dr. Virendra Verma ; **1973 :** Wing Commander K. Ramachandra Rao.

Border Security Forces : **1972 :** Insp.-Gen. Bhuwan Pande, Insp.-Gen. Pallessena Ramanathan Gopal, Dy. Commr. Rajinder Singh ; Dy. Commr. Sukhbir Singh. Dy. Commr. Swaran Singh Boparai ; **1974 :** Lt. Commander Joginder Singh.

Social Work : **1970 :** Mrs. Alice Khan, D. S. Wagh, D. N. Samant, Mrs. Indumati Sheth, J. R. Jairamdas, Miss Maniben Kara, Mohan Naik, Pandita S. N. Shah, P. P. Gokhale ; **1971 :** Mrs. Adhya Jha, A. R. Surana, Mrs. A. B. Wadia, K. V. Naidu, Rani L. R. Bhargava, M. D. Amte, P. D. Jadav, P. R. Bhatt, R. Iyer Mathrubootham, Mrs. Savitabehen, Lt. Col. S. C. Dutta, Rev. Mother Theodosia, V. V. Iyer ; **1972 :** Mrs. Chandra Prava Saikiani, Iyyanki Venkata Ramanayya, Mrs. Kanta Saroop Krishen, Palhalli Sitaramiah, Mrs. Surrinder Bansidhar Gupta ; **1973 :** Dr. J. N. Vazifdar, Lt. Col. K. S. Babu, Mrs. Sarojini Varadarajan, Mrs. Sulochana Modi ; **1974 :** Devki Nandan Pande, Hanumant Narher Joshi, Mrs. Jothi Venkata Chellum, Mrs. Masuma Begum, Mrs. Queenie H. E. Captain, Miss Sitamon Sawian ; **1975 :** Mrs. Arjumand Wahabuddin Ahmed, Mrs. Imalati Barua, Miss Ivy Kiran, Syed Hussain Ali Jaffri.

Industrialists : **1970 :** D. M. Dahanukar, G. D. Goyal, G. R. Hada, Phul Chand ; **1971 :** D. S. Jindal, K. Dulabhji, M. A. Lari, Bhai Mohan Singh ; **1972 :** Badri Prasad Bajoria, Mohan Lal Chordia, Prabhu Dayal Dabriwala ; **1974 :** Baldev Raj Chopra.

Agriculturists : **1971 :** S. A. Patil, Surya Deo Singh ; **1972 :** Puran Lal Batra, Vir Prakash Agnihotri.

Architects : **1972 :** Charles Mark Correa ; **1973 :** P. O. Sompura ; **1974 :** Achyut Purshottam Kanvinde.

Painters : **1973 :** S. G. Thakar Singh ; **1975 :** Mrs. Jagdamba Devi.

Sculptor : **1974 :** Kirpal Singh Shekhawat.

Artistes : **1970 :** A. H. Jafar Khan, A. A. Vyas, Mrs. Damyanti Joshi, Ezra Mir, C. Venketeswara Rao, K. K. Nair, Karl J. Khandalavala, Mrs. K. B. Sundarambal, M. A. Singh, M. Mansur, Pankaj Mullick, Rajendra Kumar, R. C. Mallik, R. Ganesh, Mrs. Ratna Fabri, Velangi Venketaramaiah, Ritwik Ghatak, Sukumar Bose, T. R. Mahalingam, V. S. Sarma, Vijayraghava Rao ; **1971 :** Karaikal D. Pillai, Mangalampalli B. Krishna, Manna Dey, Qadri Ragi A. A. Khan Warsi, R. S. Sharma, Sankho Chaudhri, Mrs. Shantha Rao, Mrs. Sheila Bhatia, Pt. S. Tiwari, Tripti Mitra, T. K. S. Pillai, V. Kunchu Nair ; **1972 :** Bhim Sen Joshi, Chiranjit, Mrs. Girija Devi, Dr. Gubbi Hampanna Veeranna, Hrishikesh Mukherjee, Mrs. Juthika Ray, Krishna Reddy, Lalgudi Jayaraman, Madras Kandaswamy Radha, Mahendra Kapoor, Raghu Rai, Ram Kumar, Samta Prasad, Mrs. Savitri Indrajit Parekh, Sheikh Gulab, Mrs. Suchitra Sen, Sunil Janah, Surendra Nath Banerjee, Takhelchangbam Amudon Sharma, Vasudev Shantu Gaitonde, Vazhuvoor Bhagyalakshmi Ramiah Pillai, Miss Waheeda Rahman ; **1973 :** Balasubramanya Sastrigal, C. S. Murugabhupathy, D. K. Sengupta, Kishen Maharaj, Shakoor Khan, Sitara Devi, Thikkurussi Sukumaran Nair, T. N. Krishnan, Kum. Uma Sharma ; **1974 :** Mrs. Vindhyavasini Devi, Tarapada Chakraborty, Mrs. Suchitra Mitra, Dr. Sriram Balkrishna Lagu, Mrs. Nutan Bahl, Mrs. Nina Ripjit Singh, Mrs. Muryam Begum, Emani Sankara Sastri, Gulam Qadir Lalla, Girish Raghunath Karnad, Kelu Charan Mohapatra, Mani Madhava Chakyar, Mrs. Manik Amar Varma, M. D. Ramanathan Bhagavathar, T. Subramanyam Pillai ; **1975 :** Amjad Ali Khan, Basavaraja Mahantaswamy Rajaguru, Gopi Krishna, Pandit Jasraj, Kalpathi Ganpathi Subramanyan, Kalyanam Raghuramaiah, K. J. Yesudas, M. S. Gopalakrishnan, M. S. Sathyn, Mrs. Sanjukta Panigrahi.

Literatures : **1970 :** A. C. Barua, K. R. Mallik, P. N. Renu, Prem Dhawan, P. Lal, S. Shastri Chitrao, Sikandar Ali Wajd, Sohan Lal Dwivedi, S. M. H. Rizvi ; **1971 :** Sahir Ludianvi, A. C. Hazarika, C. K. Shastri, K. Subhu, Labhu Ram "Josh Malsiani", P. N. Bishi, Suresh Singh, S. M. M. Mohazzeb, Ghulam Rabbani Taban, Badal Sarkar, Bhawani Prasad Tiwari, Dharam Vir Bharati, Mylai Ponnuswami Sivagnanam, Puttaparthi Narayanacharya ; **1973 :** Balwant Gargi, Dr. B. Bheomanna, R. R. Desai, S. Machhlisheri ; **1974 :** Kaifi Azmi, Kali Charan Pathak, Dr. Maheswar Neog, Shiv Mangal Singh ; **1975 :** Mathew M. Kuzhiveli, Gitchandra Tongbra, Mohan Datta.

Public Service : **1970 :** Gurdas Mal, L. S. Darbari, Narain Singh, Dr. S. K. Bhattacharya, W. R. Rishi ; **1971 :** A. B. Dasgupta, A. R. Bhatt, D. V. Reddy, H. D. Shourie, H. D. Wahi, Jagmohan, K. S. Pathak, P. Kandaswamy, P. N. Sahni, Ram Lal Mehta, S. K. Nargundkar, Miss S. J. Dassgupta, S. Parmanandhan, S. K. Chakravarty, U. N. Jethwa, Dr. Y. Nayudamma ; **1972 :** Brijbir Saran Das, Chandra Shekhar Samal, Dabdulal Bandopadhyaya, Himanshu Mohan Choudhury, Homi Cawas Sethna, Kailas Chandra Sengupta, Kamal Kanti Naskar, Karachur Lingappa Nanjappa, Moreshwar Mangesh Wagle, Pradeep Kumar Banerjee, Ramamurthi Badrinath, Vijay Singh, Jagish Lal, Surjit Singh Gujral ; **1973 :** Shumsher Singh, V. Krishnamurthy, V. R. Vengurlekar, Balasubramanyan Ramadorai, Brig. B. J. Shahaney, C. T. Patel, Chinnaswamy Rajan Subramanian, Debi Prasad Mukherji, F. C. Gera, H. K. Karve, Ijwant Singh, J. K. Bagchi, Kamal Krishna Sinha, Dr. M. G. Krishna, Dr. N. K. Panikkar, P. N. Bhaskaran Nair, Panimangalore Appraya Bhat, P. B. Chitnis, Raghunath Singh Gahlow, Dr. R. V. Ramaswamy (Posthumous) ; Shridhar Upadhyay ; **1974 :** Ali Hasan, Gopal Chandra Dutta, Himansu Kumar Banerjee, Indra Kumar Gupta, Kalluri Gopal Rao, Koeram Chakravarthy Kannan, Dr. P. W. Dattatraya, P. N. Bhan, Dr. Sitaram Rao Valluri, Somnath Sadhu, B. Subramanya Iyer ; **1975 :** Ajit Chandra Chatterjee, Bishan Saroop Bansal, Gundu Bandopant Meemamsi, Krisha Prasad Dar, Mrs. Linjaning Gangte, N. S. Venkatesan, Brig. Pessie Madan, Dr. Shambhu Dayal Simhal, Surajmal Agarwal, Vishnu Shridhar Wakankar.

Sportsmen : **1970 :** B. S. Bedi, E. A. S. Prasanna, S. M. M. H. Haq ; **1971 :** Chandagi Ram, Ghaus Mohamed, G. R. Vishwanath, Miss Kamaljit Sandhu, Leslie Claudius, S. N. Manna ; **1972 :** Ajit Laxman Wadekar, Bhagavath Subramany Chandrasekhar ; **1973 :** Farokh Engineer ; **1974 :** Raj Kumar Khanna ; **1975 :** Arjan Singh, Pankaj Roy.

Ornithologist : **1971 :** Zafar Futehally.

Ophthalmologist : **1973 :** Dr. G. Venkataswamy.

Philanthropist : **1973 :** S. R. Panhale.

Epigraphist : **1974 :** S. Rajguru.

Doctors : **1970 :** Dr. A. K. Basu, Dr. B. N. Sinha, Dr. C. Gopalan, Dr. C. S. C. Sadasivan, Dr. P. S. Reddy, Dr. P. P. Sahni, Dr. R. Vir Singh ; **1971 :** Dr. B. N. Balkrishna Rao, C. P. Misra (Ayurved), Dr. Hari Mohan, Dr. K. S. Sanjiv, Dr. Robin Banerjee, Dr. S. Krishnamurti ; **1972 :** Dr. Dattatraya Nagappa Pai, Dr. Dorothy Woodworth Dunning Chacko (Mrs. C. Joseph Chacko), Dr. Gopaliah Subbukrishna Melkote, Dr. (Miss) Leela Vinayak Phatak, Dr. (Miss) Mary Varghese, Dr. Prithvi Nath Khoshoo, Dr. Ravivarma Marthanda Varma, Dr. Balu Sankaran, Dr. (Mrs.) Sant Kaur, Dr. Thayil John Cherian, Dr. (Mrs.) Vatsala Seemant Choudhury ; **1973 :** Dr. Ramesh Nigam, Dr. Bhola Nath, Dr. Kandarp Tulja Shankar Dholakia, Dr. M. K. Krishna Menon, Dr. Nagendra Singh Jain, P. N. Tandon, Dr. R. K. Menda ; **1974 :** Jagmohan Lal Karoli, Dr. Jogindra Lal Gupta, Dr. Kadiyala Ram Chandra, Dr. Lala Suraj Nandan, Dr. Mani Kumar Chhetri, Dr. M. S. Nilakanta Rao Pandit ; **1975 :** Dr. Ali Mohammad, Dr. Dhanpatrai Nagpaul, Dr. Mary Poonen Lukose, Dr. Ruben David, Dr. Stanley John.

Educationists : **1970 :** Dr. C. D. S. Devanesan, Din Dyal, Miss Lillian G. Lutter, Dr. P. Narasimhayya, Dr. V. V. Rao ; Miss G. M. Linnell (Posthumous), N. G. Thakar, N. C. Sinha, Prof. R. S. Mishra, Dr. Sadashiv Misra, Miss S. Panandikar ; **1972 :** Jagannath Krishan Kate, Dr. K. Kripal Singh, Phool Chand Chowdhary, Prof. Pran Nath Mehra, Dr. Syam Nandan Prasad Kishore, Vedakantara Subramania Krishnan, Vidya Nath Langer ; **1973 :** Mrs. Coover Bai Jehangir Vakil, Dr. M. A. K. Malik Mohamed, Kum. Rohini Poovaiah ; **1974 :** Qazi Abdur Sattar, Prof. Dinesh Mohan, Fr. Thomas V. Kunnunkal.

Freedom Fighter : **1973 :** S. L. Gupta.

Scientists : **1970 :** Dr. G. A. Bandey ; Dr. P. R. Pisharoty, Dr. R. T. Doshi, M. Krishnan, Dr. C. N. K. Murthy, Prof. Devendra Lal, Dr. Harbhajan Singh, Dr. Moti Lal Dhar, Dr. S. V. S. Shastry, T. V. Ramamurti, C. R. Pillai ; **1972 :** Dr. Amia Bhushan Kar, Prof. Balasubramaniam Ramamurthi, Hari Prasad Jaiswal, Dr. Katil Narasimha Udupa ; **1973 :** Dr. Atma Prakash, Prof. Govind Swarup, Dr. J. M. Pahwa, K. Raghavachari, Dr. Nandlal Bordia, Dr. Triloki Nath Sharma ; **1974 :** Dr. Chintamani Nagesh Ramchandra Rao, Dr. Hari Narain, Dr. Nagarur Gopinath, R. P. Choudhary Jaiswal, Dr. Syed Zahoor Qasim ; **1975 :** Dr. A. K. Ganguly, P. R. Roy ; Dr. P. R. Dastidar, Dr. S. N. A. Seshadri, Dr. R. Chidambaram, S. D. Soman, Dr. Mahadeo Lalji Shahare.

Journalists : **1972 :** Shalil Ghosh ; **1973 :** Mrs. Y. V. Khadilkar ; **1974 :** Anant Gopal Sheorey, Ishrat Ali Saddiqui ; **1975 :** Bachubhai Ravat.

AWARDS FOR DEFENCE PERSONNEL

Gallantry and Distinguished Service Awards (1975): The President has approved the award of 15 Param Vishisht Seva Medals, 5 Kirti Chakras, 48 Ati Vishisht Seva Medals, 24 Shaurya Chakras, 24 Sena Medals, 12 Nao Sena Medals, 2 Bars to Vayu Sena Medal, 24 Vayu Sena Medals and 53 Vishisht Seva Medals.

Param Vishisht Seva Medal : Lt.-Gen. B. N. Das ; Lt.-Gen. M. S. Sandhu ; Air Marshal H. Moolgavkar, MVC ; Maj.-Gen. M. S. Patankar ; Maj.-Gen. R S. Hoon, AVSM ; Maj. Gen. B. Mahadevan, AVSM ; Maj.-Gen. I. C. Katoch ; Maj.-Gen. J. S. Bawa, AVSM ; Maj.-Gen. K. D. Vasishta ; Maj.-Gen. Amreek Singh ; Maj.-Gen. H. C. Gahlaut ; Maj.-Gen. Rajendra Prasad ; Maj.-Gen. S. S. Kaul ; Maj.-Gen. R. L. Chopra and Maj.-Gen. O. P. Datta, AVSM.

Kirti Chakra : Swarn Singh Boparai, Dy. Commissioner, Ferozepore ; Maj. M. S. Kadyan ; Zuheto Swu, Asst. Commandant, BSF ; N/Sub. Kalyan Singh, Assam Rifles and Hav. J. S. Sen, Vr. C. Gorkha Rifles.

Ati Vishisht Seva Medal : Brig. B. B. Mathur ; Brig. J. C. Handa, Brig. C. M. Cariappa, Brig. J. J. D. Lobo, Brig. T. S. Das, Brig. P. C. Balakrishnan, Brig. Narinder Singh, Brig. K. S. Menon, Brig. S. C. Das, Brig. N. A. Patil, Brig. R. P. Saigal, Brig. J. V. Pinto, Brig. A. D. Agarwal, Brig. K. K. Khanna, Brig. P. L. Chatterjee, Brig. A. K. Mitra, Brig. V. K. Nair, Brig. Manohar Singh Uberoi, Brig. K. Srinivasan, Brig. Gurbachan Singh, Brig. G. S. R. Wakankar, Brig. S. K. Batra, Brig. Harnam Singh, Brig. S. N. Pandit, Brig. Permanand, Brig. Ajit Singh, Brig. Amar Singh, Brig. S. P. Datta, Cdre R. H. Tahiliani, Cdre L. D. Tewari, Cdre R. K. Chopra, Air Cdre D. N. Gupta, Air Cdre W. J. Fernandes, Col. (Miss) T. Zachariahs, Col. R. G. C. Sawhney, Col. Hargoolal, Capt. (IN) P. C. Andrews, Vr. C, Capt. (IN) K. L. Chopra, VSM, Capt. (IN) G. C. Mitra, Surg. Capt. (IN) J. T. Marshall, Surg. Capt. (IN) M. C. Ramalingeshwara Rao, Gp. Capt. P. D. A. Albuquerque, Gp. Capt. K. K. Bali, Gp. Capt. S. K. Mitra, Gp. Capt. Man Mohan Singh, Vr. C., Lt. Col. P. P. Subherwal, Wg. Cdr. P. K. Dey, Wg. Cdr. I. S. Sandhu.

Shaurya Chakra : 8013568 Pioneer Raghubir Singh, Corps of Pioneers ; M. S. Sajwan, Traffic Officer, Indian Airlines, Kabul ; Capt. T. K. Sukumaram Nair ; 190567 B.H.M. Pemba Lama, Assam Rif. ; 132756 Rifleman D. B. Thakuri, Assam Rif. ; G/25592 Mansur Khan, GREF ; Maj. J. S. Brar, Raj Rif. ; G/113970 PNR Sadu David, GREF ; A. N. Guhathakurta, GREF (Posthumous); 181883 Rifleman K. B. Gurung, Assam Rif. ; Vihoi Sema, Asst. Commandant, BSF ; Tokhovi Tuku, Asst. Commandant, BSF ; Zekiya Sema, Asst. Commandant, BSF ; 191025 Nk Nyalu Rengama, Assam Rif. ; G/2461 DME Bahadur Singh, GREF ; G/8125 DME Tika Ram, GREF ; G/1504 DME Joginder Singh, GREF ; JC 61395 Sub. I. S. Gurung, Assam Rif. ; 3368983 Sep. Jaswant Singh, Sikh Regiment ; G/21198 MT/DVR Karta Singh, GREF (Posthumous) ; 1436216 Sapper Darshan Singh, 61, Engineer Regiment (Posthumous) ; R. R. Patel, Security Guard, Rourkela Steel Plant ; Paltan Singh, Rigger, Mechanical Maintenance Office, Rourkela Steel Plant (Posthumous) ; S. S. Jois, Charge-man, Mechanical Maintenance Office, Rourkela Steel Plant (Posthumous).

Sena Medal: Maj. Yash Paul ; Maj. P. Sharma ; Capt. A. K. Chettri ; M. K. Singha, Asst. Commandant, Assam Rif. ; Uttam Padera, Asst Commandant, Assam Rif. ; JC 30479 Sub. Dharampal, Raj. Rif. ; JC 25556 Sub. Mohinder Singh, Mahar Regt. ; JC 44542 Sub. Y. Prasad, Engineers ; JC 71505 N/Sub. Gurdas Ram, Mahar Regt. ; JC 61939 N/Sub Bindhoj Limbu, Assam Rif. ; 9092571 BHM Onkar Singh, J & K Militia ; 3345206 Hav. Baldev Singh, Sikh Regt ; 3350507 Hav. Niranjan Singh, Sikh Regt. ; 2853685 Naik Madho Singh, Raj. Rif. ; 1423474 Naik Kanwar Pal Singh, Engrs. ; 9204792 Naik Amarjit Singh, Mahar Regt. ; 131812 Naik Khim Kholet Kuki, Assam Rif. ; 142096 Lance Naik Mahabir Prasad, Assam Rif. ; 5838180 Rifleman Dil Bahadur Chhetry, Gorkha Rif. ; 4045669 Rifleman Shib Singh Negi, Garh Rif. ; 142001 Rifleman Pukh Bahadur, Assam Rif. ; 150697 Rifleman K. B. Chhetry, Assam Rif. ; 1450792 Sapper Jagtar Singh, 61 Engr. Regt., and 13818555 Sepoy (Driver) K. Balakrishnan, ASC (Posthumous).

Nao Sena Medal: Cdr. Sat Pal Singh Dhindsa ; Lt. Cdr. S. Gopalakrishnan ; Lt. Cdr. Amarjeet Singh Rawat ; Lt. Cdr. E. D. Chauhan ; Lt. Cdr. F. R. Clarke ; Lt. (IN) V. S. Malhotra ; Lt. (IN) Unnikrishnan Nair ; A. P. Kuriakos, Engine Room Artificer II ; P. Ramadurai, Engine Room Artificer III ; Brij Mohan Sharma, Engine

Room Artificer III, Gurcharan Singh Dhillon, R.P.O.; Dalip Singh Chatha, P.O.

Bar to Vayu Sena Medal : Sqn. Ldr. Verinder Puri; Sqn. Ldr. Jagbir Singh Rai.

Vayu Sena Medal : Wg. Cdr. V. B. Vasisht MVC; Wg. Cdr. Suresh Chand; Wg. Cdr. M. S. Jatar; Vr. C., Wg. Cdr. E. G. Salins; Wg. Cdr. P. K. Varma, Sqn. Ldr. J. F. Josephs; Sqn. Ldr. P. E. Gaynor; Sqn. Ldr. Pratap Rao; Sqn. Ldr. R. P. Paliwal, Logistics/Parachute Jump Instructor; Sqn. Ldr. H. S. Ghuman; Sqn. Ldr. S. N. Sehgal; Sqn. Ldr. C. R. Ghosh; Sqn. Ldr. K. S. Bindra; Sqn. Ldr. K. K. Sangar, Flt. Lt. S. Jayandra, Vr. C., ; Flt. Lt. K. S. Mandla, Flt. Lt. Prem Singh; Flt. Lt. B. S. Marwa; Flt. Lt. P. P. Chopra, 28605 MWO J. K. Kar, Signaller; 29436 MWO V. Ravindran, Signaller; 202101 MWO M. P. Muthana; Flt. Engineer, 47138 WO L. Cruz (Ground Trg. Instructor); 216117 Flt. Sgt. Devraj (Signaller).

Vishisht Seva Medal : Col. R. K. Gupta, Col. G. G. Sorabji, Capt. (IN) C. S. John, Lt. Col. (Hony. Col.) Moolchand Shrivastav, Lt. Col. L. A. P. Sequeira, Lt. Col. K. S. Khurana, Lt. Col. O. P. Sharma, Lt. Col. Hargobind Singh, Lt. Col. P. K. Khanna, Lt. Col. H. N. Seth, Lt. Col. M. S. Panwar, Lt. Col. D. B. Nayar, Lt. Col. M. K. Paul, Lt. Col. Ombir Singh, Cdr. (IN) A. V. R. Narayana Rao, Cdr-at-Arms (IN) Kundan Lal, Sarg. Cdr.(D) S. N. Luthra, Wg. Cdr. K. M. Rishi, Wg. Cdr. B. B. Bhattacharjee, Wg. Cdr. G. N. Baindur, Wg. Cdr. V. K. Vaish, Wg. Cdr. R. N. Sen, Wg. Cdr. D. S. Gupta, Wg. Cdr. K. C. Sinha, Maj. R. K. Rai, Maj. Narendra Bahri, Maj. (Miss) Sylvya Greta, Lt. Cdr. V. K. Tuli, Lt. Cdr. Mehar Singh, Lt. Cdr. K. S. Durge, Lt. Cdr. C. Narayanan, Sqn. Ldr. H. K. Kaushal, Sqn. Ldr. M. K. Som, Sqn. Ldr. Om Dutt Sharma, Capt. (Miss) Indu Shan Rao Khedekar, Capt. P. N. P. Madham, Lt. (IN) Ravinder Kumar, Lt. (IN) G. D. Sharma, Flt. Lt. P. K. Mukherjee, Parameswaran Nair MCPO I (TAS I), K. R. Nair MCPO(CK) I, 29565 MWO M. V. Vaidya Clk/GD, 45089 MWO J. B. Chandran GTI, 204098 MWO Maha Singh Dahiya, Radar Mechanic, JC 53553 Sub. Phuman Singh, JC 53673 Sub. Sher Singh, R. S. Natrajan, CPO (ME), 18718 WO M. M. Oliver (Fitter I), 31684 WO Diwan Chand (Fitter I), 47308 WO E. N. Nair, 204133 Flt. Sgt. Sain Dass (Instrument Repairer I), 236722 Sgt. D. P. Roy (Radar Mechanic), and 250805 Corporal K. Radhakrishnan (Fitter II Airframe).

NATIONAL AWARDS TO CHILDREN FOR BRAVERY

Recipients : Master Surjit Singh Yadav (Haryana), Master E. Sureshan (Kerala), Master Mukesh Indravadan (Maharashtra), Miss Laishram Pramodini Devi (Manipur), Master Salam Rajankumar Singh (Manipur), Master Amit Banerjee (W. Bengal), Master Raj Kumar Singh Rawat (U.P.), Master Dinesh Singh Chauhan (U.P.), Master Mathiuhol (Manipur) and Master Naveen Kapri (Rae Bareli, U.P.).

ARJUNA AWARDS (1973)

Athletics : Ram Singh; *Badminton :* A. Kareem; *Basketball :* S. K. Kataria; *Boxing :* Mehtab Singh; *Billiards :* Shyam Shroff; *Equestrian :* Khan Mohamad Khan; *Football :* Magan Singh Rajiv; *Golf :* Vikramjit Singh; *Hockey :* M. G. Ganesh; *Kabaddi :* Bhola Nath Guin; *Table Tennis :* Niraj Ramkrishna Bajaj; *Volleyball :* Mrs. G. Malini Reddy; *Wrestling :* Jagroop Singh; *Yachting :* Afsar Hussain; *Swimming :* Tingoo Khatau; *Kho-Kho :* Miss Bhavana Hasmukhlal Parikh.

SAHITYA AKADEMI AWARDS (1974)

Following are the names of the award-winning books and authors of different languages :

Assamese : "Golam" (Short Stories) — Saurabh Kumar Chaliha; *Bengali :* "Ulanga Raja" (Poems) — Nirendranath Chakravarti; *Dogri :* Dudh Lahoo Zahar" (Short Stories) — Madan Mohan; *Gujarati :* "Tartamya" (Literary Criticism) — Anantrai Raval; *Hindi :* "Mitti ki Bharat" (Poems) — Shivmangal Singh; *Kannada :* "Vardhaman" (Poems) — M. Gopalkrishna Adige; *Malayalam :* "Kamasurabhi" (Poems) — Yennikkulam Gopala Kurup; *Manipuri :* "Ilisa Amagi Mahao" (Short Stories) — N. Kunjamohan Singh; *Marathi :* "Natsamrat" (Drama) — V. V. Shirwadkar; *Oriya :* "Sabdara Akash" (Poems) — Sitakanta Mahapatra; *Punjabi :* "Jug Badal Gaya" (Novel) — Sohan Singh Sital; *Rajasthani :* "Batan Ri Phulwari" (Folk Tales—Vol. X) — Vijaydan Detha; *Sanskrit :* "Shrishivarajyodayam" (Epic Poem) — S. B. Warnekar; *Sindhi :* "Hunaje Atam Jo Maut" (Novel) — Lal Pushap; *Tamil :* "Thirukkural Needhi Ilakkiyam" (Literary Criticism) — K. T. Thirumakkarasu; *Telugu :* "Timiram Tho Samaram" (Poems) — Dasarathi; *Urdu :* "Nazar Aur Nazariya" (Literary Criticism) — Ali Ahmed Suroor.

SANGEET NATAK AKADEMI AWARDS (1974)

Fellowships : Mrs. Kamaladevi Chattopadhyay, Mrs. M. S. Subbalakshmi and Jan Prakash Ghosh.

Music : Kumar Gandharva (Hindustani Vocal); Nikhil Bannerjee (Hindustani Instrumental — Sitar); M. D. Ramanathan (Karnatak Vocal); T. N. Krishnan (Karnatak Instrumental — Violin).

Drama: Damu Kenkre (Direction); Pransukh Naik (Acting — Gujarati); S. D. Sundaram (Play writing — Tamil); Tapas Sen (Stage technique); Puna Ram (Folk theatre — Pandavani).

Dance : Kittappa Pillai (Bharata Natyam); Kalamandalam Ramankutty Nair (Kathakali); Gauri Shankar (Kathak); Mrs. L. Ibemhai Devi (Manipuri); Bhagban Sahu (Folk dance of Orissa).

NEHRU AWARDS

Literacy : 1968 — Dr. (Mrs.) W. H. Fisher; 1969 — Mrs. Kulsum Sayani; 1971 — Mrs. Durgabai Deshmukh; 1972 — Satyen Mitra; 1974 — T. S. Avinashilingam Chettiar.

International Understanding : 1965 — U. Thant (Burma); 1966 — Martin Luther King (U.S.); 1967 — Khan Abdul Gaffar Khan (Afghanistan); 1968 — Yehudi Menuhin (U.S.); 1969 — Mother Teresa (India); 1970 — Dr. Kenneth Kaunda (Zambia); 1971 — President Josip Broz Tito (Yugoslavia); 1972 — Andre Malraux (France); 1973 — President Julius K. Nyerere (Tanzania).

KALINGA PRIZES

The prize named after the ancient Indian empire of that name, was offered as a Gift to the United Nations Education, Scientific & Cultural Organisation (UNESCO) by an Indian industrialist Mr. Biju Patnaik of Orissa. The prize carries one thousand pounds sterling in cash. It was started in 1952.

1952 :—Prince Louis de Broglie, Professor of Physics, University of Paris (France).
1953 :—Dr. Julian Huxley, F.R.S. (U.K.).
1954 :—Waldemar Kaempffert, Science Editor of the "New York Times" (U.S.).
1955 :—Dr. August Pi Sunner, Head of Physiology at the University of Caracas (Venezuela).
1956 :—Prof. George Gamond of the University of Colorado (U.S.).
1957 :—Bertrand Russell (U.K.).

1958 :—Karl Von Frisch, German Scientist (Germany & Austria).
1959 :— Jean Rostand, French Scientist (France).
1960 :—Ritchi Calder (U.K.).
1961 :—Arthur C. Clarke, President, Ceylon Astronomical Association.
1962 :—Gerard Piel, American Science writer.
1963 :—Jagjit Singh (India).
1964 :—Dr. R. Warren Weaver (U.S.).
1965 :—Dr. Eugene Robinowitch (France).
1966 :—Paul Couderc, Astronomer & writer (France).
1967 :—Professor Fred Hoyle (U.K.).
1968 :—Sir Gavin de Beer (U.K.).
1970 :—Miss Margaret Mead (U.S.).
1971 :—Prof. Pierre Auger (France).
1973 :—Dr. Philip Ableson (U.S.) and Nigel Calder (U.K.).

JNANPITH AWARDS

1965 :—Mahakavi Sankara Kurup — "Odakuzhal".
1966 :—Tara Shanker Bannerjee — "Ganadevata".
1967 :—Dr. K. V. Puttappa— "Ramayana Darshanam"; Uma Shanker Joshi — "Nisheeth".
1968 :—Sumitranandan Pant — "Chidambaram".
1969 :—Raghupati Sahai Firaq — "Gul-e-Naghma".
1970 :—Dr. Vishwanatha Satyanarayana — "Ramayana Kalpavrikshanu".
1971 :—Bishnu Dey — "Smriti Satta Bhavishyat".
1972 :—Ramdhari Singh Dinkar — "Urvashi".
1973 :— Dr. Dattatreya Ramchandra Bendre — "Naku Tanthi"; Gopinath Mahanty — "Mati Matal".

FILMFARE AWARDS

Best Picture : Do Bigha Zamin (Bimal Roy), 1953; Boot Polish (Raj Kapoor), 1954; Jagriti (S. Mukerji), 1955; Jhanak Jhanak Payal Baaje (V. Shantaram), 1956; Mother India (Mehboob), 1957; Madhumati (Bimal Roy), 1958; Sujata (Bimal Roy), 1959; Mughal-e-Azam (K. Asif), 1960; Jis Desh Men Ganga Behti Hai (Raj Kapoor), 1961; Sahib Bibi Aur Ghulam (Guru Dutt), 1962; Bandini (Bimal Roy), 1963; Dosti (Tarachand Barjatya), 1964; Himalay Ki Godmein (Shankerbhai J. Bhatt), 1965; Guide (Dev Anand), 1966; Upkar (Vishal Pictures), 1967; Brahmachari (G. P. Sippy), 1968; Aradhana (Shakti Samanta), 1969; Khilona, 1970; Anand (Hrishikesh Mukherji and N. C. Sippy), 1971; Be-imaan (Sohanlal Kanwar), 1972; Anuraag (Shakti Samanta), 1973: Rajnigandha (Basu Chatterji), 1974.

Best Director : Bimal Roy (Do Bigha Zamin), 1953; Bimal Roy (Parineeta), 1954; Bimal Roy (Biraj Bahu), 1955; V. Shantaram (Jhanak Jhanak Payal Baaje), 1956; Mehboob (Mother India), 1957; Bimal Roy (Madhumati), 1958; Bimal Roy (Sujata), 1959; Bimal Roy (Parakh), 1960; B. R. Chopra (Kanoon), 1961; Abrar Alvi (Sahib Bibi Aur Gulam), 1962; Bimal Roy (Bandini), 1963; Raj Kapoor (Sangam), 1964; Yash Chopra (Waqt), 1965; Vijay Anand (Guide), 1966; Manoj Kumar (Upkar), 1967; Ramanand Sagar (Ankhen), 1968; Yash Chopra (Ittefaq), 1969; Asit Sen (Safar), 1970; Raj Kapoor (Mera Naam Joker), 1971; Sohanlal Kanwar (Be-imaan), 1972; Yash Chopra (Daag), 1973; Manoj Kumar (Roti, Kapada aur Makaan), 1974.

Best Actor : Dilip Kumar (Daag), 1953; Bharat Bhooshan (Shri Chaitanya Mahaprabhu), 1954; Dilip Kumar (Azaad), 1955; Dilip Kumar (Devdas), 1956; Dilip Kumar (Naya Daur), 1957; Dev Anand (Kala Pani), 1958; Raj Kapoor (Anari), 1959; Dilip Kumar (Kohinoor), 1960; Raj Kapoor (Jis Desh Men Ganga Behti Hai), 1961; Ashok Kumar (Rakhi), 1962; Sunil Dutt (Mujhe Jeene Do), 1963; Dilip Kumar (Leader), 1964; Sunil Dutt (Khandaan), 1965; Dev Anand (Guide), 1966; Dilip Kumar (Ram Aur Shyam), 1967; Shammi Kapoor (Brahmachari), 1968; Ashok Kumar (Aashirwad), 1969; Rajesh Khanna (Sachha Jutha), 1970; Rajesh Khanna (Anand), 1971; Manoj Kumar (Be–imaan), 1972; Rishi Kapoor (Bobby), 1973; Rajesh Khanna (Aavishkar) 1974.

Best Actress : Meena Kumari (Baiju Bawra), 1953; Meena Kumari (Parineeta), 1954; Kamini Kaushal (Biraj Bahu), 1955; Nutan (Seema), 1956; Nargis (Mother India), 1957; Vyjayanthimala (Sadhna), 1958; Nutan (Sujata), 1959; Bina Rai (Ghunghat), 1960; Vyjayanthimala (Gunga-Jumna), 1961; Meena Kumari (Sahib Bibi Aur Ghulam), 1962; Nutan, (Bandini), 1963; Vyjayanthimala (Sangam), 1964; Meena Kumari (Kaajal), 1965; Waheeda Rehman (Guide), 1966; Nutan (Milan), 1967; Waheeda Rehman (Neel Kamal), 1968; Sharmila Tagore (Aradhana), 1969; Mumtaz (Khilona), 1970; Asha Parekh (Kati Patang) 1971; Hema Malini (Seeta Aur Geeta) 1972; Dimple Kapadia (Bobby) & Jaya Bhaduri (Abhimaan), 1973; Jaya Bhaduri (Kora Kagaz) 1974.

Best Supporting Actor : David (Boot Polish), 1954; Abhi Bhattacharya (Jagriti), 1955; Motilal (Devdas), 1956; Raj Mehra (Sharada), 1957; Johnny Walker (Madhumati), 1958; Man Mohan Krishna (Dhool Ka Phool), 1959; Motilal (Parakh), 1960; Nana Palsikar (Kanoon), 1961; Mehmood (Dil Tera Deewana), 1962; Raj Kumar (Dil Ek Mandir), 1963; Nana Palsikar (Shehar Aur Sapna), 1964; Raaj Kumar (Waqt), 1965; Ashok Kumar (Afsana), 1966; Pran (Upkar), 1967; Sanjeev Kumar (Shikar), 1968; Pran (Ansoo Ban Gaye Phool), 1969; Feroz Khan (Aadmi Aur Insaan), 1970; Amitabh Bachchan (Anand) 1971; Pran (Be-imaan) 1972; Amitabh Bachchan (Namak Haram) 1973; Vinod Khanna (Haath ki Safai) 1974.

Best Supporting Actress : Usha Kiron (Baadbaan), 1954; Nirupa Roy (Munimji), 1955; Vyjayanthimala (Devdas), 1956; Shyama (Sharada), 1957; Nalini Jaywant (Kala Pani), 1958; Lalita Pawar (Anari), 1959; Nanda (Aanchal), 1960; Nirupa Roy (Chhaya), 1961; Shashikala (Aarti), 1962; Shashikala (Gumrah), 1963; Nirupa Roy (Shehnai), 1964; Padmini (Kaajal), 1965; Simi (Do Badan), 1966; Jamuna (Milan), 1967; Simi (Saathi), 1968; Tanuja (Paisa Ya Pyar), 1969; Chand Usmani (Pehchan), 1970; Farida Jalal (Paras), 1971; Zeenat Aman (Hare Rama Hare Krishna) 1972; Raakhee (Daag) 1973; Durga Khote (Bidaai) 1974.

Best Comedian : Mehmood, (Pyar Kiye Jaa), 1966; Om Prakash (Dus Lakh), 1967; Johnny Walker (Shikar), 1968; Mehmood (Waris), 1969; I. S. Johar (Johnny Mera Naam), 1970; Not awarded, 1971; Not awarded, 1972; Asrani (Aaj ki Taaza khabar), 1973; Mehmood (Vardaan) 1974.

Best Story Writer : Pt. Mukhram Sharma, (Aulad), 1954; Pt. Mukhram Sharma (Vachan), 1955; Amiya Chakrabarty (Seema), 1956; Akhtar Mirza (Naya Daur), 1957; Pt. Mukhram Sharma (Sadhna), 1958; Subodh Ghosh (Sujata), 1959; Ruby Sen (Masoom), 1960; Shridhar (Nazrana), 1961; K. P. Kottarakkara (Rakhi), 1962; Jarasandha (Bandini), 1963; Ban Bhatt (Dosti), 1964; Akhtar Mirza (Waqt), 1965; R. K. Narayan (Guide), 1966; Manoj Kumar (Upkar), 1967; Sachin Bhaumick (Brahmachari), 1968; V. S. Kanetkar (Ansoo Ban Gaye Phool), 1969; Chandrakant Kakodkar (Do Raaste), 1970; Hrishikesh Mukerji (Anand), 1971;

Basu Bhattacharya (Anubhav) 1972; Salim Javed (Zanjeer), 1973; Kaifi Azmi and Ismat Chugtai (Garam Hawa) 1974.

Best Music Director: Naushad (Baiju Bawra), 1953; S. D. Burman (Taxi Driver), 1954; Hemant Kumar (Nagin), 1955; Shanker-Jaikishen (Chori Chori), 1956; O. P. Nayyar (Naya Daur), 1957; Salil Choudhury (Madhumati), 1958; Shanker-Jaikishen (Anari), 1959; Shanker-Jaikishen (Dil Apna Aur Preet Parai), 1960; Ravi (Gharana), 1961; Shanker-Jaikishen (Professor), 1962; Roshan (Taj Mahal), 1963; Laxmikant-Pyarelal (Dosti), 1964; Ravi (Khandaan), 1965; Shanker-Jaikishen (Suraj), 1966; Laxmikant-Pyarelal (Milan), 1967; Shanker-Jaikishen (Brahmachari), 1968; Laxmikant-Pyarelal (Jeene Ki Raah), 1969; Shanker-Jaikishen (Pehchan), 1970; Shankar-Jaikishan (Mera Nam Joker), 1971; Shanker–Jaikishan (Be–imaan), 1972; S. D. Burman (Abhimaan), 1973; Kalyanji Anandji (Kora Kagaz) 1974.

Best Photographer (Black & White): Tara Dutt (Boot Polish), 1954; Dwarka Divecha (Yasmin), 1955; Radhu Karmakar (Shree 420), 1956; Faredoon Irani (Mother India), 1957; Dilip Gupta (Madhumati), 1958; V. K. Murthy (Kaagaz Ke Phool), 1959; R. D. Mathur (Mughal-e-Azam), 1960; V. Babasaheb (Ganga-Jumna), 1961; V. K. Murthy (Sahib Bibi Aur Ghulam), 1962; Kamal Bose, (Bandini), 1963; K. H. Kapadia (Woh Kaun Thi), 1964; Ramchandra (Yaadein), 1965; Jaywant Pathare, (Anupama), 1966; Jal Mistry (Baharon Ke Sapne), 1967; Nariman A. Irani (Saraswatichandra), 1968; Kamal Bose (Anokhi Raat), 1969; Kamal Bose (Khamoshi), 1970; Kamal Bose (Dastak), 1971. Not Awarded since 1972.

Best Photographer (Colour): Krishnarao Vashirde (Sehra), 1963; Krishnarao Vashirde (Geet Gaya Pattharon Ne), 1964; Dharam Chopra (Waqt), 1965; Fali Mistry (Guide), 1966; M. N. Malhotra (Hamraaz), 1967; G. Singh (Ankhen), 1968; Faredoon Irani (Duniya), 1969; Jal Mistry (Heer Ranjha), 1970; Radhu Karmakar (Mera Naam Joker), 1971; P. Vaikunth (Seeta Aur Geeta), 1972; Jal Mistry (Jeelke Us Paar), 1973; A. Vincent (Premnagar), 1974.

Best Sound Recordist: Ishan Ghosh (Jeevan Jyoti), 1954; R. Kaushik (Amar), 1955; A. K. Parmar (Jhanak Jhanak Payal Baaje), 1956; R. Kaushik (Mother India), 1957; Ishan Ghosh (Chandan), 1958; A. K. Parmar (Navrang), 1959; George D'Cruz (Parakh), 1960; Kuldeep Singh (Junglee), 1961; S. Y. Pathak (Bees Saal Baad), 1962; Dinshaw Billimoria (Bandini), 1963; Allauddin (Sangam), 1964; Essa M. Suratwala (Yaadein), 1965; Manohar Amberkar (Mera Saaya), 1966; J. M. Barot (Jewel Thief), 1967; P. Thakkersey (Shikar), 1968; M. A. Shaikh (Ittefaq), 1969; S. C. Bhambri (Talash), 1970; Allauddin (Mera Naam Joker), 1971; Jehangir Nowroji (Amar Prem), 1972; Allauddin (Bobby), 1973; L. H. Bhatia (Amir Garib), 1974.

Best Art Director (Black & White): Rusi Banker (Mirza Ghalib), 1955; Kanu Desai (Jhanak Jhanak Payal Baaje), 1956; M. R. Acharekar (Pardesi), 1957; Sudhendu Roy (Madhumati), 1958; M. R. Acharekar (Kaagaz Ke Phool), 1959; Biren Naug (Chaudhvin Ka Chand), 1960; M. R. Acharekar (Jis Desh Men Ganga Behti Hai), 1961; D. R. Jadhav and Ram Yedekar (Son of India), 1962; Sudhendu Roy (Mere Mehboob), 1963; G. L. Jadhav & T. K. Desai (Kohraa), 1964; M. S. Sathyu (Haqeeqat), 1965; Sant Singh (Yeh Raat Phir Na Aayegi), 1966; H. V. Maharudria (Taqdeer), 1967; Ajit Banerjee (Majhli Didi), 1968; Ajit Banerjee (Anokhi Raat), 1969; Not awarded since 1970.

Best Art Director (Colour): Sant Singh (Jahan Ara), 1964; S. S. Samel (Gumnaam), 1965; Shanti Das (Phool Aur Patthar), 1966; Abdul Rahim (Chandan Ka Palna), 1967; A. A. Majid (Noor Jehan), 1968; A. R. Kakkad & Baburao T. Poddar (Tamanna), 1969; Shanti Das (Talash), 1970; Bansi Chandragupta (Seema), 1971; N. B. Kulkarni (Pakeezah), 1972; A. Rangaraj (Bobby), 1973; Sudhendu Roy (Sagina), 1974.

Best Editor: Hrishikesh Mukherjee (Naukri), 1955; G. G. Mayekar (Shree 420), 1956; Shivaji Awdhut, (Sharada), 1957; Hrishikesh Mukherjee (Madhumati), 1958; Chintaman Borkar (Navrang), 1959; Moosa Mansoor (Kohinoor), 1960; G. G. Mayekar (Jis Desh Men Ganga Behti Hai), 1961; Keshav Nanda (Bees Saal Baad), 1962; Pran Mehra (Gumrah), 1963; Raj Kapoor (Sangam), 1964; Pratap Dave, (Himalay Ki Godmein), 1965; Vasant Borkar (Phool Aur Patthar), 1966; B. S. Glaad (Upkar), 1967; N. M. Shankar (Saathi), 1968; Balbir S. Glaad (Nanna Farishta), 1969; Vijay Anand (Johnny Mera Naam), 1970; Not awarded, 1971; Manoj Kumar (Shor), 1972; R. D. Mahadik (Zanjeer), 1973; Kamalakar Karkhanis (Roti), 1974.

Best Lyricist: Shailendra (Yahudi), 1958; Shailendra (Anari), 1959; Shakeel Badayuni (Chaudhvin Ka Chand), 1960; Shakeel Badayuni (Gharana), 1961; Shakeel Badayuni (Bees Saal Baad), 1962; Sahir Ludhianvi (Taj Mahal), 1963; Majrooh Sultanpuri (Dosti), 1964; Rajendra Krishna (Khandaan), 1965; Hasrat Jaipuri, (Suraj), 1966; Gulshan Bawra (Upkar), 1967; Shailendra (Brahmachari), 1968; Neeraj (Chanda Aur Bijli), 1969; Verma Malik (Pehchan), 1970; Hazrat Jaipuri (Andaz), 1971; Verma Malik (Be-imaan), 1972; Gulshan Bawra (Zanjeer), 1973; Santosh Anand (Roti, Kapada aur Makaan), 1974.

Best Playback Singer: Lata Mangeshkar (Madhumati), 1958; Mukesh (Anari), 1959; Mohammed Rafi (Chaudhvin Ka Chand), 1960; Mohammed Rafi (Sasural), 1961; Lata Mangeshkar (Bees Saal Baad), 1962; Mahendra Kapoor (Gumrah), 1963; Mohammed Rafi (Dosti), 1964; Lata Mangeshkar, (Khandaan) 1965; Mohammed Rafi (Suraj), 1966; Mahendra Kapoor (Hamraaz), Asha Bhosle, (Dus Lakh); 1967; Mohammed Rafi, (Brahmachari), Asha Bhosle (Shikar), 1968; Kishore Kumar (Aradhana), Lata Mangeshkar (Jeene Ki Raah), 1969; Mukesh (Pehchan), Sharada (Jahan Pyar Miley), 1970; Manna Dey (Mera Naam Joker), Asha Bhosle (Caravan), 1971; Mukesh (Be-imaan), Asha Bhosle (Hare Rama Hare Krishna), 1972; Narendra Chanchal (Bobby), Asha Bhosle (Naina), 1973; Mahendra Kapoor (Roti, Kapada aur Makan); Asha Bhosle (Pran Jaye Par Vachan Na Jaye), 1974.

Best Dialogue Writer: Rajinder Singh Bedi (Madhumati), 1958; Ramanand Sagar (Paigham), 1959; Aman, Kamal Amrohi, Wajahat Mirza, Ehsan Rizvi (Mughal-e-Azam), 1960; Wajahat Mirza (Gunga-Jumna), 1961; Akhtar-ul-Iman (Dharmputra), 1962; Arjun Dev Rashk (Dil Ek Mandir), 1963; Govind Moonis (Dosti), 1964; Akhtar-ul-Iman (Waqt), 1965; Vijay Anand (Guide), 1966; Manoj Kumar (Upkar), 1967; Ali Raza (Saraswatichandra), 1968; Pandit Anand Kumar (Anokhi Raat), 1969; Rajinder Singh Bedi, (Satyakam), 1970; Gulzar (Anand), 1971; Ramesh Pant (Amar Prem), 1972; Gulsar (Namak Haraam), 1973; Kaifi Azmi (Garam Hawa), 1974.

Best Screen Play Writer: Nabendu Ghosh (Majhli Didi), 1968; Hrishikes Mukerjee, (Anokhi Raat), 1969; Vijay Anand (Johny Mera Naam), 1970; Basu Chatterji (Sara Akash), 1971; Arvind Mukherjee (Amar Prem), 1972 ; Javed (Zanjeer) 1973 ; Kaifi Azmi and Shama Zaidi (Garam Hawa), 1974.

Special Awards : Jaya Bhaduri (for outstanding performance in Uphaar) and Prithviraj Kapoor (for outstanding contribution to the stage and screen), 1971 ; V. Shantaram (for outstanding contribution to film industry) 1972 ; Special Citation for "Anubhav", 1972 ; Amitabh Bachchan (for outstanding performance in Namak Haraam) ; Raakhee (for outstanding performance in Daag) and Rajesh Khanna (for his role in Anuraag), 1973 "Ankur" (Producers: Mohan J. Bijlani and Freni Variava), 1974.

Best Documentary Film: Handicrafts of Rajasthan (Clement Baptista) 1966 ; India 1967 (S. Sukhdev), 1967 ; Explorer (Pramod Patti) 1968 ; Then, the Rains (Ramesh Gupta) 1969 ; Koodal (Tyeb Mehta) 1970 ; Creations in Metal (Homi D. Sethna) 1971 ; Nine Months To Freedom (S. Suckhdev) 1972 ; A Day With The Builders (C. J. Paulose) 1973 ; The Nomad Puppeteer (Mani Kaul) 1974.

Regional Film Awards :

Best Marathi Film: Maza Hoshil Ka (L. B. Thakur), 1963 ; Sant Nivratti Gyandeo (Vinayak Sarasvate and Bal Chavan), 1964 ; Lakshmi Aali Ghara (Madhav Shinde), 1965 ; Gurukilli (Raja Paranjape), 1966 ; Pawankanthcha Dhondi (Vinayak Thakur), 1967 ; Ekti (G. Chaugule), 1968 ; Jiwhala (Atma Ram), 1969 ; Apradh (Sharad Pilgaonkar), 1970 ; Shantata : Court Chaloo Ahe (Satyadev Dubey and Govind Ninalani), 1971 ; Kunku Mazhe Bhagyache (Shamrao Mane), 1972 ; Andhala Marto Dola, 1973 ; Sugandhi Katta, 1974.

Tamil

Best Picture : Bharatha Vilas, 1973 ; Dekkatra Parvathi, 1974 ; *Best Director :* A. C. Trikokchander (Bharathavilas), 1973 ; K. Balashander (Aval Oru Thodar Kathai), 1974 ; *Best Actor :* Sivaji Ganesan (Gowravam), 1973 ; Gemini Ganesh (Nan Avanillai), 1974 ; *Best Actress :* Jayalalitha (Suryakanthi), 1973 ; Lakshmi (Dikkatra Parvathi) 1974 ; *Special Award for excellent production values :* Ulagam Sutrum, 1973 ; *Special Commendation Award for Performance :* K. R. Vijaya in Deerga Sumangali 1974.

Telugu

Best Picture : Jeevanatarangalu, 1973 ; O' Seetha Kata, 1974 ; *Best Director :* T. Rama Rao (Jeevanatarangalu), 1973 ; K. Vishwanath (O'Seetha Kata), 1974 ; *Best Actor :* A. Nageswara Rao (Marupurani Manishi), 1973 ; Soban Babu (Kaidi Babai) 1974 ; *Best Actress :* Vanisri (Jeevanatarangalu), 1973 ; Vanisri (Krishnaveni) 1974.

Malayalam

Best Picture : Panitheeratha Veedu, 1973 ; Nellu, 1974 ; *Best Director :* K. S. Sethumadhavan (Panitheeratha Vedu), 1973 ; K. S. Sethumadhavan (Chattakkari) 1974 ; Best Actor : P. J. Anthony (Nirmalyam) 1973 ; Kamala Hasan (Kanya Kumari) 1974 ; Best Actress : Nandita Bose (Swapnam), 1973 ; Lokshmi (Chattakkari), 1974.

Kannada

Best Picture : Nagarahavu, 1973 ; Kadu, 1974 ; *Best Director* S. R. Puttanna (Edakallu Guddada Mele), 1973 ; Girish Karnad (Kadu) 1974 ; *Best Actor :* Raj Kumar (Gandhada Gudi), 1973 ; Lokesh (Boothyyana Magayyu) 1974 ; *Best Actor :* Raj Kumar (Gandhadaagayyu) 1974 ; *Best Actress :* Jayanthi (Edakallu Guddada Mele), 1973 ; Arti (Upasane) 1974 ; *Special Award for excellent Performance :* Vishnu Vardhan (Nagarhavu), 1973.

Bengali

Best Picture : Mahanagar (R. D. Bansal), 1963 ; Charulata (R. D. Bansal), 1964 ; Atithi (S. N. Sircar), 1965 ; Balika Bodhu (Sunila Devi), 1966 ; Haatey Bazarey (Ashim Dutta), 1967 ; Apanjan (R. N. Malhotra), 1968 ; Kamal Lata (Niren Sil), 1969 ; Pratidvandi (Nepal Dutta and Ashim Dutta), 1970 ; Nimantran (Bharat Shumsher Jung Bahadur Rana), 1971 ; Mem Saheb (Ashima Bhattacharjee), 1972 ; Strir Patra, 1973 ; Amanush, 1974.

Best Director : Pijush Bose (Bikaley Bhorer Phool) 1974 ; *Best Actor :* Uttam Kumar (Amanush) 1974 ; *Best Actress :* Aparna Sen (Sujata) 1974.

Critics Award : Uski Roti (Mani Kaul), 1970 ; Ashad Ka Ek Din (Mani Kaul), 1971 ; Maya Darpan (Kumar Shahani), 1972 ; Duvidha (Mani Kaul), 1973 ; Rajnigandha (Babu Chatterji), 1974.

NOBEL PRIZE AWARDS

Physics : W. C. Roentgan (G) (1901) ; H. A. Lorentz (D), P. Zeeman (D) (1902) ; H. Bequerel (F), P. Curie (F), Marie Curie (F) (1903) ; Lord J. W. S. Rayleigh (B) (1904) ; P. Lenard (G) (1905) ; J. J. Thomson (B) (1906) ; A. A. Michelson (A) (1907) ; G. Lippmann (I) (1908) ; F. Braun (G), G. Marconi (I) (1909) ; J. D. Van der Waals (D) (1910) ; W. Wien (G) (1911) ; G. Dalen (S) (1912) ; H. Kamerlingh Onnes (D) (1913) ; M. V. Laue (G) (1914) ; W. H. Bragg (B), W. L. Bragg (B) (1915) ; — (1916) ; C. G. Barkia (B) (1917) ; M. Planck (G) (1918) ; J. Stark (G) (1919) ; C. E. Guillaume (F) (1920) ; A. Einstein (G) (1921) ; N. Bohr (Da) (1922) ; R. A. Millikan (A) (1923) ; M. Seegbahn (S) (1924) ; J. Franck (G), G. Hertz (G) (1925) ; J. Perrin (J) (1926) ; A. H. Compton (A), C. T. R. Wilson (B) (1927) ; O. W. Richardson (B) (1928) ; L. de Broglie (F) (1929) ; C. V. Raman (In.) (1930) ; — (1931) ; W. Heisenberg (G) (1932) ; P. A. M. Dirac (B), E. Schroedinger (Au) (1933) ; — (1934) ; J. Chadwick (B) (1935) ; V. F. Hess (Au), C. D. Anderson (A) (1936) ; C. J. Davisson (A), G. P. Thomson (B) (1937) ; E. Fermi (I) (1938) ; E. O. Lawrence (A) (1939) ; 1940 to 1942 (no awards) ; O. Stern (A) (1943) ; I. I. Rabi (A) (1944) ; W. Pauli (Au) (1945) ; P. W. Bridgman (A) (1946) ; Sir Edward Appleton (B) (1947) ; P. M. S. Blackett (B) (1948) ; H. Yukawa (J) (1949) ; Cecil F. Powell (B) (1950) ; Sir J. Cockcroft (B), E. T. S. Walton (In) (1951) ; E. Purcell (A), P. Bloch (A) (1952) ; F. Zernike (D) (1953) ; M. Born (B), W. Bothe (G) (1954) ; W. E. Lamb (A), P. Kusch (A) (1955) ; W. Shockley (A), J. Bardeen (A), W. H. Brattain (A) (1956) ; T. Dao-ee (Chi), C. Ning Yang (Chi) (1957) ; P. A. Cerenkov (R), I. M. Frank (R), I. Tamm (R) (1958) ; E. Segre (A), O. Chamberlain (A) (1959) ; D. A. Glasser (A) (1960) ; R. Hofstadtar (A), R. Mossbauer (G) (1961) ; L. Davidovich Landau (R) (1962) ; Engene P. Wigner, Maria Geoppoert Mayer, Hans D. Jensen (1963); Charles Towns, Nikolai Basov, Alexander Prochorov (1964) ; Julian Schwingar, Richard Feynman, Shinichero Tomonaga (1965) ; Alfred Kastler (1966) ; Hans Albert Bethe (A) (1967) ; Louis W. Alvarez (A) (1968) ; Prof. Murray Gell-Mann (A) (1969) ; Prof. Manlouis Neel (F), Prof. Hannes Alfven (Sw) (1970) ; Dr. Dennis Gabor (B) (1971) ; Prof. John Bardeen (A), Prof. John Schrieffer (A), Prof. Leon Cooper (A) (1972) ; Dr. Leo Esaki (A), Dr. Ivar Gisevar (A), Dr. Brian D. Josephson (E) (1973) ; Prof. Martin Ryle (B), Prof. Antony Hewish (B) 1974).

Chemistry : J. H. Van't Hoff (D) (1901) ; E. Fischer (G) (1902) ; S. Arhenius (S) (1903) ; W. Ramsay (B) (1904) ; A. V. Baeyer (G) (1905) ; H. Moissan (F) (1906) ; E. Buchner (G) (1907) ; E. Rutherford (B) (1908) ; V. Ostwald (G) (1909) ; O. Wallach (G) (1910) ; Marie Curie (F) (1911) ; V. Grignard (F), P. Sabatier (F) (1912) ; A. Werner (Sw) (1913) ; T. W. Richards (A) (1914) ; R. Willstaetter (G)

(1915); — (1916); — (1917); F. Haber (G) (1918); — (1919); W. Nernst (G) (1920); F. Soddy (B) (1921); F. W. Aston (B) (1922); F. Pregi (Au) (1923); — (1924); R. Zsigmondy (G) (1925); T. Svedberg (S) (1926); H. Wieland (G) (1927); A. Windaus (1928); H. V. Eueler-Chelpin (S), A. Harden (B) (1929); H. Fischer (G) (1930); P. Bergins (G), K. Bosch (G) (1931); I. Langmuir (A) (1932); — (1933); H. C. Urey (A) (1934); F. Joliot-Curie (I), I. Joliot Curie (I) (1935); P. Debye (D) 1936); W. N. Haworth (B), P. Karrer (Sw) (1937); R. Kuhn (G) (1938); A. P. Butenandt (G), L. Ruzicka (Sw) (1939); 1940 to 1942 (no awards), G. Hevsey (H) (1943); O. Hahn (G) (1944); A. Virtanen (Fi) (1945); J. B. Sumner (A), J. H. Northrop (A), W. M. Stanley (A) (1946); Sir Robert Robinson (B) (1947); A. Tiselius (S) (1948); W. F. Giauque (A) (1949); Otto Diels (G), K. Alder (G) (1950); E. M. MacMillan (A), G. T. Seaborg (A) (1951); A. J. P. Martin (B), R. L. M. Synge (B) (1952); H. Staudinger (G) (1953); L. Pauling (A) (1954); Vincent du Vigneaud (A) (1955); Sir Cyril Hinshelwood (B), N. Semonov (R) (1956); Sir Alexander Todd (B) (1957); F. Sanger (B) (1958); J. Heyrovsky (Cz) (1959); W. F. Libby (A) (1960); M. Calvin (1961); M. F. Perutz (B), J. C. Kendreu (B) (1962); Prof. Karl Ziegler, Guilio Natta (I) (1963); Dorothy Crow Hodgkin (1964); Robert Burns Woodward (1965); Robert S. Mulliken (1966); Manfred Eigen (G), Ronald G. W. Norrish (B), George Porter (B) (1967); Lars Onsager (A) (1968); D. H. Barton (B), O. Hassal (N) (1969); Prof. Luis Leloir (Ar) (1970); Dr. Gerhard Herzberg (C) (1971); Dr. Christian B. Anfinsen (A), Dr. Stanford Moore (A), Dr. William H. Stein (A) (1972); Dr. Fischer (G), Dr. Wilkinson (B) (1973); Prof. Paul J. Flory (A) (1974).

Physiology & Medicine : E. V. Behring (G) (1901); R. Ross (B) (1902); N. R. Finsen (Da) 1903); I. P. Pavlov (R) (1904); R. Koch (G) (1905); C. Golgi (I), S. R. Y. Cajal (Sp) (1906); C. L. A. Laveran (F) (1907); P. Ehrlich (G), E. Metchnikoff (R) (1908); T. Kocher (Sw) (1909); A. Kossel (G) (1910); A. Gullstrand (S) (1911); A. Carrel (A) (1912); C. Richet (F) (1913); R. Barany (Au) (1914); — (1915); — (1916); — (1917); — (1918); J. Bordet (Be) (1919); A. Krogh (Da) (1920); — (1921); A. Hill (B), O. Meyerhof (G) (1922); F. G. Banting (C), J. R. Macleod (C) (1923); W. E. Einthoven (D) (1924); — (1925); J. Fibiger (Da) (1926); J. Wagner-Jauregg (Au) (1927); C. Nicolle (F) (1928); C. Eijkman (D), F. G. Hopkins (B) (1929); K. Landsteiner (Au) (1930); O. Warburg (G) (1931); C. S. Sherrington (B), E. D. Adrian (B) (1932); T. H. Morgan (A) (1933); G. Minot (A), W. Murphy (A), G. Whipple (A) (1934); H. Spemann (G) (1935); Sir H. H. Dale (B), O. Loewi (G) (1936); A. V. Szent-Gyorgyl (H) (1937); C. Heymans (Be) (1938); G. Domagk (G) (1939); 1940 to 1942 (no awards); H. Dam (Da), F. A. Doisy (A) (1943); E. J. Erianger (A), H. S. Gasser (A) (1944); Sir A. Fleming (B), Sir H. Florey (B), E. B. Chain (B) (1945); H. J. Muller (A) (1946); B. A. Houssay (Ar), C. F. Cori (A), G. T. Cori (A) (1947); P. Muller (Sw) (1948); W. R. Hess (Sw), A. F. Moniz (Po) (1949); E. C. Kendall (A), P. S. Hench (A), R. Reichstein (Sw) (1950); M. Theiler (A) (1951); S. Waksman (A) (1952); H. A. Krebs (B), F. A. Lipmann (A) (1953); J. F. Enders (A), F. C. Robins (A), T. H. Weller (A) (1954); Hugo Theorell (S) (1955); A. F. Cournaud (A), D. W. Richards (A), W. Forssmann (G) (1956); D. Bovet (I) (1957); G. W. Beadle (A), E. L. Tatum (A), J. Lederberg (A) (1958); S. Ochoa (A), A. Kornberg (A) (1959); P. B. Medawar (B), Sir M. Burnet (Aus) (1960); F. H. C. Crick (B), M. H. F. Wilkins (B), J. D. Watson (A) (1962); G. von Brekesy (H) (1961); Sir John Carew Eccles, Allan Lloyd Hodgkin, Andrew Fielding Huxley (1963); Konard Bloch, Feodor Lynen (1964); Jacques Monod, Francois Jacob, Andra Lwoff (1965); Peyton Rous, Charles B. Huggins (1966); Haldan Keffer Hartline (A), George Wald (A), Ragnar Granit (Swe) (1967); Robert W. Holley, H. Gobind Khorana, Marshall W. Nirenberg (all U.S.A.) (1968); Dr. Max Delbrueck, Dr. Alfred Hershey, Dr. Salvador Luria (All American) (1969); Sir Bernar Katz (B); Dr. Ulfvon Euler (Sw), Dr. Julius Axelord (A) (1970); Dr. Earl Wilbur Sutherland (A) (1971); Dr. G. M. Edelman (A), Dr. R. Porter (B) (1972); Prof. Karl von Frisch (Au), Dr. Konard Lorenz (Au), Prof. Nikolaas Tinbergen (D) (1973); Dr. Albert Claude (Lux.), Dr. Christian De Duve (B), Dr. George Palade (Ru) (1974).

Literature : B. F. A. Sully Prudhomme (F) (1901); T. Mommsen (G) (1902); B. Bjornson (N) (1903); F. Mistral (F), Echegaray (Sp) (1904); H. Sieukiewic (P) (1905); G. Carducci (I) (1906); Rudyard Kipling (B) (1907); R. Eucken (G) (1908); S. Lageriof (S) (1909); P. Heyse (G) (1910); N. Maeterlinck (Be) (1911); G. Hauptmann (G) (1912); R. Tagore (In) (1913); — (1914); R. Rolland (F) (1915); V. Von Heidenstam (S) (1916); K. Gjellerup (Da), H. Pontoppidan (Da) (1917); — (1918); C. Spitteler (Sw) (1919); K. Hamsum (N) (1920); A. France (I) (1921); J. Benavente (Sp) (1922); W. B. Yeats (Ir) (1923); W. Reymont (P) (1924); G. B. Shaw (B) (1925); G. Deledda (I) (1926); H. Bergson (F) (1927); S. Undset (N) (1928); T. Mann (G) (1929); S. Lewis (A) (1930); E. A. Karifeldt (S) (1931); J. Galsworthy (B) (1932); Bunin (R) (1933); L. Pirandello (I) (1934); — (1935); E. O'Neill (A) (1936); R. Martin du Gard (F) (1937); Pearl S. Buck (A) (1938); F. E. Sillanpaa (Fi) (1939); 1940 to 1942 (no awards); — (1943); J. V. Jensen (Da) (1944); G. Mistral (1945); H. Hesse (Sw) (1946); Andre Gide (F) (1947); T. S. Fliot (B) (1948); W. Faulkner (A) (1949); Lord Russel (B) (1950); P. Lageirkvist (S) (1951); F. Maurisac (F) (1952); Sir W. S. Churchill (B) (1953); E. Hemingway (A) (1954); Halldor Laxness (Ic) (1955); J. Ramon Jimenez (Sp) (1956); A. Camus (F) (1957); B. Pasternak (R) (1958); S. Quasimode (I) (1959); A. St. Leger (F) (1960); J. Steinbeck (A) (1961); I. Andric (Y), J. Steinbeck (A) (1962); Giorgos Stylia nos Sefariads (1963); — (1964); Mikhail Sholokhov (1965); Samuel Joseph Agnon, Miss Nelly Sachs (1966); Miguel Angel Austurias (Greek) (1967); Yasunari Kawabata (J) (1968); Samuel Becket (Ir) (1969); Alexander Sozhenitsyn (R) (1970); Pablo Neruda (Ch) (1971); Heinrich Boell (G) (1972); Patrick White (Aus) (1973); Eyvind Johnson (Sw); Harry Martinson (Sw) (1974).

Peace : H. Dunant (Sw), F. Passy (F) (1901); E. Ducommun (Sw), A. Gobat (Sw) (1902); Sir W. R. Cremer (B) (1903); Institut de Droit International (1904); Bertha von Suttner (Au) (1905); T. Roosevelt (A) (1906); E. T. Moneta (I), L. Renault (F) (1907); K. P. Arnoldson (S), P. Bajer (Da) (1908); A. M. F. Beernaert (Be), Baron de Estournelles de Constant de Rebecque (F) (1909); The Bureau International Permanent De la Paix, Berne (1910); T. M. C. Asser (D), A. H. Fried (Au) (1911); E. Root (A) (1912); H. La Fontaine (Be) (1913); — (1914); — (1915); — (1916); Comite International de la Croix Rouge, Geneva (1917); — (1918); W. Wilson (A) (1919); L. Bourgeois (F) (1920); K. H. Branting (S), C. L. Lange (N) (1921); F. Nansen (N) (1922); — (1923); — (1924); Sir A. Chamberlain (B), C. G. Dawes (A) (1925); A. Briand (F), G. Stresemann (G) (1926); F. Buisson (F), L. Quidde (G) (1927); — (1928); F. B. Kellogg (A) (1929); L. O. J. Soderblom (S) (1930); Jane Addams (A), N. M. Butler (A) (1931); — (1932); Sir Norman Angell (B) (1933); Arthur Henderson (B) (1934); C. von Ossietzky(G) (1935); C. de S. Lamas (Ar) (1936); Viscount Cecil of Chilwood (B) (1937); Office International Nansenpour les

Refugies (1938); — (1939); 1940 to 1942 (no awards); — (1943); Comite International de la Croix Rouge, Geneva (1944); Cordell Hull (A) (1945); Emily G. Balch (A), J. R. Mott (A) (1946); American & British Quaker Organisations (1947); — (1948); Lord Boyd-Orr (B) (1949); Ralf Bunche (A)(1950); Leon Jouhaux (F)(1951); A. Schweitzer (F)(1952); Gen. G. Marshall (A) (1953); U.N. High Commission for Refugees (1954); — (1955); — (1956); L. B. Pearson (C) (1957); Father George Pire (Be) (1958); P. J. Noel-Baker (B) (1959); A. Luthuli (S.A.) (1960); D. Hammarskjold (S) (1961); L. C. Pauling (A) (1962); International Red Cross and League of Red Cross Societies (1963); Martin Luther King (1964); UNICEF (1965); — 1966); — 1967); Bene Cassin (Fr) (1968); International Labour Organisation (1969); Norman Earnest Borlaug (A) (1970); Willy Brandt (W.G.) (1971); Dr. Henry Kissinger (A); Lee Duc Tho (N.V.) (1973); Eisoku Sato (J), Sean McBride (Ir) (1974).

Economics : Prof. Jan Tinbergen (Dutch) (1969); Prof. Paul A. Samulson (A) (1970); Dr. Simon Kuznets (U.S.A.) (1971); Prof. John R. Hicks (B), Prof. Kenneth J. Arrow (A) (1972); Prof. Wassily Leontief (R) (1973); Prof. Gunner Myrdal (Sw), Friedrich Von Hayek (Br) (1974).

17TH NATIONAL AWARDS FOR EXCELLENCE IN PRINTING & DESIGNING.

(Some of the awards are as follows)

Art Books : First Prize: *Kangra Ragamala Paintings* — Printer & Designer : Vakil & Sons Pvt. Ltd., Bombay ; Publisher : National Museum, New Delhi. Second Prize : *Indian Painted and Printed Fabrics* — Printer & Designer : Vakil & Sons Pvt. Ltd. ; Publisher : Calic Museum Textiles, Ahmedabad ; Certificate of Merit : *Chhavi* — Golden Jubilee Volume — Printer : Vakil & Sons Pvt. Ltd.

Daily Newspapers (English) : First Prize — *The Financial Express* — Printer & Publishers : Indian Express Newspapers (Bombay) Pvt. Ltd. ; Second Prize : *The Tribune* — Printer & Publisher : The Tribune, Chandigarh; Certificate of Merit : *Evening News of India* — Printer & Publisher : The Times of India Press, Bombay.

Daily Newspapers (Indian Languages) : First Prize — *Udayavani* (Kannada) — Printer & Publisher, Manipal Printers & Publishers Pvt. Ltd., Manipal ; Second Prize : *Nai Duniya* (Hindi) Printers & Publishers : Narendra Tiwari, Indore.

News Weeklies : (English) : Certificate of Merit — *The Statesman Weekly* — Printer & Publisher — The Statesman Ltd., Calcutta.

House Magazines : First Prize — *Designfolio-I* — Printer & Publisher : National Institute of Design, Ahmedabad.

Art Magazines : First Prize — *Marg* — Printer : Tata Press Ltd., Bombay ; Publisher & Designer : Marg Publications, Bombay.

Magazines — Monthlies & Others (English) — First Prize : *Span* — Printer : Vakil & Sons Pvt. Ltd., Bombay. Publisher : United States Information Service, New Delhi ; Certificate of Merit — *Taj* — Printer : Bolton Fine Art Litho Works, Bombay ; Publisher : The Indian Hotels Co. Ltd., Bombay.

Magazines — Monthlies & Others (Indian Languages) — Certificate of Merit : *Kishore* — Printer : Usha Offset Printers, Bombay ; Publisher : Maharashtra State Bureau of Text book Publication & Curriculum Research, Bombay.

A — American ; Ar — Argentine ; Au — Austrian ; Aus — Australian ; B — British ; Be — Belgian ; C — Canadian ; Ch — Chilean ; Chi — Chinese, Cz — Czech ; D — Dutch ; Da — Danish ; F — French ; Fi — Finnish ; G — German ; H — Hungarian ; I — Italian ; In — Indian ; Ic — Icelandic ; Ir — Irish ; J — Japanese ; Lux — Luxembourg ; N — Norwegian ; N.V. — North Vietnam ; P — Polish ; Po — Portuguese; R — Russian ; Ru — Rumanian ; S — Swedish ; S.A. — South African ; Sp — Spanish ; Sw — Swiss ; Y — Yugoslav.

Note :—N. A. : Not awarded.

SPORTS

The sports come within the purview of the Ministry of Education.

An advisory body, called the All India Council of Sports, composed of 20 persons eminent in the field of sports and games advises the Ministry in all matters relating to development of sports in the country.

The Government of India have set up a National Council of Sports and Physical Education to advise on the promotion and development of sports, games, physical education and recreation in the country. It replaces the All-India Council of Sports, whose term expired at the end of November, 1970.

OLYMPIC RECORDS

'Citius, Altius, Fortius' — 'Swifter, Higher, Stronger'

In the world of sport, no event can match the OLYMPIC GAMES for colour and pageantry, for tension and excitement, for sheer brilliance of performance — from the days of Coroebus of Elis, a cook who won the first recorded Olympic event in 776 B.C., to the present day.

The history of the OLYMPIC GAMES is rich with famous names. Every four years, in some major city of the world, thousands of Olympians gather for athletic competition. In 1896 Baron Pierre de Coubertin fathered the modern Olympic Games. "The important thing" he said, "in the Olympic Games is not winning but taking part. The essential thing in life is not conquering but fighting well."

OLYMPIC CHAMPIONS
MEN'S

100 Metre Dash

Year	*Winner*	*Country*	*Time (Seconds)*
1896	Thomas Burke	U.S.	12·0
1900	Francis Jarvis	,,	10·8
1904	Archie Hahn	,,	11·0
1908	Reginald Walker	S. Africa	10·8
1912	Ralph Craig	U.S.	10·8
1920	Charles Paddock	,,	10·8
1924	Harold Abrahams	G.B.	10·6
1928	Percy Williams	Canada	10·8
1932	Eddie Tolan	U.S.	10·3
1936	Jessie Owens	,,	10·3
1948	Harrison Dillard	U.S.	10·3
1952	Lindy Remigino	,,	10·4
1956	Bobby Morrow	,,	10·5
1960	Armin Hary	Germany	10·0
1964	Bob Hayes	U.S.	10·0
1968	Hines	U.S.	9·9
1972	Valeriy Borzov	U.S.S.R.	10·14

200 Metre Dash

1900	J. Walter Tewksbury	U.S.	22·2
1904	Archie Hahn	,,	21·6
1908	Robert Kerr	Canada	22·6
1912	Ralph Craig	U.S.	21·7

200 Metre Dash — *(Contd.)*

Year	*Winner*	*Country*	*Time (Seconds)*
1920	Allan Woodring	U.S.	22·0
1924	Jackson Scholz	,,	21·6
1928	Percy Williams	Canada	21·8
1932	Eddie Tolan	U.S.	21·2
1936	Jessie Owens	,,	20·7
1948	Mel Patton	,,	21·1
1952	Andrew Stanfield	,,	20·7
1956	Bobby Morrow	,,	20·6
1960	Livio Berruti	Italy	20·5
1964	Henry Carr	U.S.	20·3
1968	Smith	U.S.	19·8
1972	Valeriy Borzov	U.S.S.R.	20·0

400 Metre Dash

Year	*Winner*	*Country*	*Time (Seconds)*
1896	Thomas Burke	U.S.	54·2
1900	Maxey Long	,,	49·4
1904	Harry Hillman	,,	49·2
1908	Wyndham Halswelle	G.B.	50·0
1912	Charles Reidpath	U.S.	48·2
1920	Beville Rudd	S. Africa	49·6
1924	Eric Liddell	G.B.	47·6
1928	Ray Barbuti	U.S.	47·8
1932	William Carr	,,	46·2
1936	Archie Williams	,,	46·5
1948	Arthur Wint	Jamaica	46·2
1952	George Rhoden	,,	45·9
1956	Charles Jenkins	U.S.	46·7
1960	Otis Davis	,,	44·9
1964	Mike Larabee	,,	45·1
1968	Evans	U.S.	43·8
1972	Vince Mathews	U.S.	44·7

800 Metre Run

Year	*Winner*	*Country*	*Time (mts. seconds)*
1896	Edwin Flack	G.B.	2·11·0
1900	Alfred Tysoe	,,	2·01·4
1904	James Lightbody	U.S.	1·56·0
1908	Melvin Shepperd	,,	1·52·8
1912	James Meredith	U.S.	1·51·9
1920	Albert Hill	G.B.	1·53·4
1924	Douglas Lowe	,,	1·52·4
1928	Douglas Lowe	,,	1·51·8
1932	Thos. Hampson	,,	1·49·8
1936	John Woodruff	U.S.	1·52·9
1948	Mal Whitfield	,,	1·49·2
1952	Mal Whitfield	,,	1·49·2
1956	Thomas Courtney	,,	1·47·7
1960	Peter Snell	New Zealand	1·46·3
1964	Peter Snell	,,	1·45·1
1968	Doubell	Australia	1·44·3
1972	David Wottle	U.S.	1·45·9

1,500 Metre Run

Year	*Winner*	*Country*	*Time (mts. seconds)*
1896	Edwin Flack	G.B.	4·33·2
1900	Charles Bennett	,,	4·06·2
1904	James Lightbody	U.S.	4·05·4
1908	Melvin Shepperd	,,	4·03·4

1,500 Metre Run — *(Contd.)*

Year	*Winner*	*Country*	*Time (mts. seconds)*
1912	Arnold Jackson	G.B.	3·56·8
1920	Albert Hill	,,	4·01·8
1924	Paavo Nurmi	Finland	3·53·6
1928	Harry Larva	,,	3·53·2
1932	Luigi Beccali	Italy	3·51·2
1936	Jack Lovelock	New Zealand	3·47·8
1948	Henry Eriksson	Sweden	3·49·8
1952	Joseph Barthel	Luxembourg	3·45·2
1956	Ron Delaney	Ireland	3·41·2
1960	Herbert Elliot	Australia	3·35·6
1964	Peter Snell	New Zealand	3·38·1
1968	K. Keino	Kenya	3·34·9
1972	Pekka Vasala	Finland	3·36·3

5,000 Metre Run

1912	Hannes Kolehmainen	Finland	14·36·6
1920	Joseph Guillemot	France	14·55·6
1924	Paavo Nurmi	Finland	14·31·2
1928	Willie Ritola	,,	14·38·0
1932	Lauri Lehtinen	,,	14·30·0
1936	Gunnar Hockerd	,,	14·22·2
1948	Gaston Reiff	Belgium	14·17·6
1952	Emile Zatopek	Czechoslovakia	14·06·6
1956	Vladimir Kuts	U.S.S.R.	13·39·6
1960	Murray Halberg	New Zealand	13·43·4
1964	Bob Schul	U.S.	13·48·8
1968	Gammoudi	Tunisia	14·05·0
1972	Laase Viren	Finland	13·26·4

10,000 Metre Run

1912	Hannes Kolehmainen	Finland	31·20·8
1920	Paavo Nurmi	,,	31·45·8
1924	Willie Ritola	,,	30·23·2
1928	Paavo Nurmi	,,	30·18·8
1932	Janusz Kusocinski	Poland	30·11·4
1936	Ilmari Salmenin	Finland	30·15·4
1948	Emil Zatopek	Czechoslovakia	29·59·6
1952	Emil Zatopek	,,	29·17·0
1956	Vladimir Kuts	U.S.S.R.	28·45·6
1960	Petr Bolotnikov	,,	28·32·2
1964	Billy Mills	U.S.	28·24·4
1968	Temu	Kenya	29·27·4
1972	Laase Viren	Finland	27·38·4

Marathon *(hrs. mts. secs.)*

1896	Spindon Loues	Greece	2·58·50·0
1900	Michel Teato	France	2·59·45·0
1904	Thomas Hicks	U.S.	3·28·53·0
1908	John Hayes	,,	2·55·18·4
1912	Kenneth Macarthur	S. Africa	2·36·54·8
1920	Hannes Kolehmainen	Finland	2·32·35·8
1924	Albin Stenroos	France	2·41·22·6
1928	El Ouafi	,,	2·32·57·0
1932	Juan Zabala	Argentina	2·31·36·0
1936	Kitei Son	Japan	2·29·19·2
1948	Delfo Cabrera	Argentina	2·34·51·6
1952	Emil Zatopek	Czechoslovakia	2·23·03·2
1956	Alain Mimoun	France	2·25·00·0
1960	Abebe Bikila	Ethiopia	2·15·16·2
1964	Abebe Bikila	,,	2·12·11·2
1968	Wolde	,,	2·20·26·4
1972	Frank Shorter	U.S.	2·12·19·7

3,000 Metre Steeplechase *(hrs. mts. secs.)*

1920	Percy Hodge	G.B.	10·00·4
1924	Willie Ritola	Finland	9·33·6
1928	Toiva Laukola	,,	9·21·8
1932	Volmari Iso-Hollo	,,	10·33·4

1,500 Metre Run — *(Contd.)*

Year	*Winner*	*Country*	*Time (mts. seconds)*
	(3460 Metres — extra lap by mistake)		
1936	Volmari Iso-Hollo	Finland	9·03·8
1948	Thore Sjostrand	Sweden	9·04·6
1952	Horace Ashenfelter	U.S.	8·45·4
1956	Chris Brasher	G.B.	8·41·2
1960	Zdzislav Krzyszkowiak	Poland	8·34·2
1964	Gaston Roelants	Belgium	8·30·8
1968	Biwatte	Kenya	8·51·0
1972	Kip Keino	,,	8·23·6

20,000 Metre Walk

1956	Leonid Spirine	U.S.S.R.	1·31·27·0
1960	Vladimir Golubnichy	,,	1·34·07·2
1964	Kenneth Mathews	G.B.	1·29·34·0
1968	Golubnichiy	U.S.S.R.	1·33·58·4
1972	Peter Frenkel	E. Germany	1·26·42·6

50,000 Metre Walk

1932	Thomas Greene	G.B.	4·50·10·0
1936	Harold Whitlock	,,	4·30·41·4
1948	John Ljunggren	Sweden	4·41·52·0
1952	Guiseppe Dordoni	Italy	4·28·07·8
1956	Norm. Reed	New Zealand	4·30·42·8
1960	Donald Thomson	G.B.	4·25·30·0
1964	Abdon Pamich	Italy	4·11·12·4
1968	Hohne	E. Germany	4·20·13·6
1972	B. Kannenberg	W. Germany	3·56·11·6

400 Metre Relay

1912 Great Britain; 1920 United States; 1924 United States; 1928 United States; 1932 United States; 1936 United States; 1948 United States; 1952 United States; 1956 United States; 1960 Germany; 1964 United States; 1968 United States; 1972 United States.

1,600 Metre Relay

Year and winner (Country) respectively:

1908 United States; 1912 United States; 1920 Great Britain; 1924 United States; 1928 United States; 1932 United States; 1936 Great Britain; 1948 United States; 1952 Jamaica; 1956 United States; 1960 United States; 1964 United States; 1968 United States; 1972 Kenya.

110 Metre Hurdles

Year	*Winner*	*Country*	*Time (Seconds)*
1896	Thomas Curtis	U.S.	17·6
1900	Alvin Kraenzlein	,,	15·4
1904	Fredrick Schule	U.S.	16·0
1908	Forrest Smithson	,,	15·0
1912	Fredrick Kelly	,,	15·1
1920	Earl Thomson	Canada	14·8
1924	Daniel Kinsey	U.S.	15·0
1928	Sydney Atkinson	S. Africa	14·8
1932	George Saling	U.S.	14·6
1936	Forrest Townes	,,	14·2
1948	William Porter	,,	13·9
1952	Harrison Dillard	,,	13·7
1956	Lee Calhoun	,,	13·5
1960	Lee Calhoun	,,	13·8
1964	Hayes Jones	,,	13·6
1968	Davenport	,,	13·3
1972	Rodney Milburn	,,	13·24

400 Metre Hurdles

Year	*Winner*	*Country*	*Time (Seconds)*
1900	J. Walter Tewksbury	U.S.	57·6
1904	Harry Hillman	,,	53·0
1908	Charles Bacon	,,	55·0
1920	Frank Loomis	,,	54·0
1924	F. Morgan Taylor	,,	52·6
1928	Lord David Burghley	G.B.	53·4
1932	Robert Tisdall	Ireland	51·8
1936	Glenn Hardin	U.S.	52·4
1948	Roy Cochran	,,	51·1
1952	Charles Moore	,,	50·8
1956	Glenn Davis	,,	50·1
1960	Glenn Davis	,,	49·3
1964	Rex Cawley	,,	49·6
1968	Hemery	G.B.	48·1
1972	John Akii-Bua	Uganda	47·82

Pole Vault

Year	*Winner*	*Country*	*Height*
1896	Welles Hoyt	U.S.	10′ 9¾″
1900	Irving Baxter	,,	10′ 9·9″
1904	Charles Drovak	,,	11′ 6″
1908	Albert Gilbert	,,	12′ 2″
	Edward Cook	,,	
1912	Harry Babcock	,,	12′ 11½″
1920	Frank Foss	,,	12′ 5·9″
1924	Lee Barnes	,,	12′ 11½″
1928	Sabin Carr	,,	13′ 9·3″
1932	William Miller	,,	14′ 1·7″
1936	Earle Meadows	,,	14′ 3¼″
1948	O. Guinn Smith	,,	14′ 1¼″
1952	Robert Richards	,,	14′ 11¼″
1956	Robert Richards	,,	14′ 11½″
1960	Donald Bragg	,,	15′ 5·1″
1964	Fred Hansen	,,	16′ 8¾″
1968	Seagren	,,	17′ 8½″
1972	Wolfgang Nordwig	E. Germany	5·50 metres.

High Jump

Year	*Winner*	*Country*	*Height*
1896	Ellery Clark	U.S.	5′ 11¼″
1900	Irving Baxter	,,	6′ 2·4″
1904	Samuel Jones	,,	5′ 11″
1908	Harry Porter	,,	6′ 3″
1912	Alma Richards	,,	6′ 4″
1920	Richard Landon	,,	6′ 4¼″
1924	Harold Osborne	,,	6′ 5·9″
1928	Robert King	,,	6′ 4·3″
1932	Duncan Mcnaughton	Canada	6′ 5·5″
1936	Cornelius Johnson	U.S.	6′ 7·9″
1948	John Winter	Australia	6′ 6″
1952	Walter Davies	U.S.	6′ 8¼″
1956	Charles Dumas	,,	6′ 11¼″
1960	Robert Shavlakadze	U.S.S.R.	7′ 1″
1964	Valerie Brumel	,,	7′ 1¾″
1968	Fosbury	U.S.	7′ 4¼″
1972	Yuri Tarmak	U.S.S.R.	2·23 metres.

Long Jump

Year	*Winner*	*Country*	*Length*
1896	Ellery Clark	U.S.	20′ 10″
1900	Alvin Kraenzlein	,,	23′ 6·7″
1904	Myer Prinstein	,,	24′ 1″
1908	Frank Irons	,,	24′ 6½″
1912	Albert Gutterson	,,	24′ 11¼″

Long Jump — (*Contd.*)

Year	*Winner*	*Country*	*Length*
1920	William Pettersson	Sweden	23′ 5½″
1924	DeHart Hubbard	U.S.	24′ 5·1″
1928	Edward Hamm	,,	25′ 4¾″
1932	Edward Gordon	,,	25′ ¾″
1936	Jesse Owens	,,	26′ 5·3″
1948	Willy Steele	,,	25′ 8″
1952	Jerome Biffle	,,	24′ 10″
1956	Gregory Bell	,,	25′ 8¼″
1960	Ralph Boston	,,	26′ 7¾″
1964	Lynn Davis	G.B.	26′ 5½″
1968	Beamon	U.S.	29′ 2½″
1972	Randy Williams	,,	8·24 metres.

Triple Jump

1896	James Connoly	U.S.	45′
1900	Myer Prinstein	,,	47′ 4¼″
1904	Myer Prinstein	,,	47′
1908	Timothy Ahearne	G.B.	48′ 11½″
1912	Gustaf Lindblom	Sweden	48′ 5·1″
1920	Vilho Tuulos	Finland	47′ 6·7″
1924	Archibald Winter	Australia	50′ 11·1″
1928	Mikio Oda	Japan	49′ 10 13/16″
1932	Chuhei Nambus	,,	51′ 7″
1936	Naoto Tajima	,,	52′ 5[illegible]″
1948	Arne Ahman	Sweden	50′ 6¼″
1952	Adhemar Farreira da Silva	Brazil	53′ 2½″
1956	Adhemar Farreira da Silva	,,	53′ 7½″
1960	Jozef Schmidt	Poland	55′ 1¾″
1964	Jozef Schmidt	,,	55′ 3½″
1968	Saneyev	U.S.S.R.	57′ ¾″
1972	Victor Saneev	,,	17·35 metres.

16-lb. Shot-Put

1896	Robert Garett	U.S.	36′ 9¾″
1900	Richard Sheldon	,,	46′ 3·1″
1904	Ralph Rose	,,	48′ 7″
1908	Ralph Rose	,,	46′ 7½″
1912	Patrick McDonald	,,	50′ 4″
1920	Ville Porhola	Finland	48′ 7·1″
1924	Clarence Houser	U.S.	49′ 2½″
1928	John Kuck	,,	52′ 11/16″
1932	Leo Sexton	,,	52′ 6 3/16″
1936	Hans Woelke	Germany	53′ 1¾″
1948	Wilbur Thompson	U.S.	56′ 2″
1952	Parry O'Brein, Jr.	,,	57′ 1½″
1956	Parry O'Brein, Jr.	U.S.	60′ 11″
1960	William Nieder	,,	64′ 6¾″
1964	Dallas Long	,,	66′ 8½″
1968	Matson	,,	67′ 4¾″
1972	Wladyslaw Komar	Poland	21·18 metres.

Discus Throw

1896	Robert Garett	U.S.	95′ 7½″
1900	Rudolf Bauer	Hungary	118′ 2·9″
1904	Martin Sheridan	U.S.	128′ 10½″
1908	Martin Sheridan	,,	134′ 2″
1912	Armas Taipale	Finland	145′ 9/16″
1920	Elmer Niklander	,,	146′ 7″
1924	Clarence Houser	U.S.	151′ 5¼″
1928	Clarence Houser	,,	155′ 2 4/5″
1932	John Anderson	,,	162′ 4·7″
1936	Kenneth Carpentor	,,	165′ 7½″
1948	Adolfo Consolini	Italy	173′ 2″
1952	Sim Iness	U.S.	180′ 6½″
1956	Alfred Oerter	,,	184′ 10½″

Discus Throw — (*Contd.*)

Year	*Winner*	*Country*	*Length*
1960	Alfred Oerter	U.S.	194′ 2″
1964	Alfred Oerter	,,	200′ 1½″
1968	Alfred Oerter	,,	212′ 6½″
1972	Ludwik Danek	Czechoslovakia	64·40 metres.

16-lb. Hammer Throw

Year	*Winner*	*Country*	*Length*
1900	John Flanagan	U.S.	167′ 4″
1904	John Flanagan	,,	168′ 1″
1908	John Flanagan	,,	170′ 4¼″
1912	Mathew McGarth	,,	179′ 7·1″
1920	Patrick Ryan	,,	173′ 5·5″
1924	Frederick Tootell	,,	174′ 10¼″
1928	Patrick O'Callaghan	Ireland	168′ 7½″
1932	Patrick O'Callaghan	,,	176′ 11·1″
1936	Karl Hein	Germany	185′ 4¼″
1948	Imre Nemeth	Hungary	183′ 11½″
1952	Jozsef Csermak	,,	197′ 11¾″
1956	Harold Connolly	U.S.	207′ 3½″
1960	Vasily Rudenkov	U.S.S.R.	220′ 1·5″
1964	Romuald Klim	,,	228′ 10½″
1968	Zsivotzky	Hungary	240′ 8″
1972	Bandarchuck	U.S.S.R.	75·50 metres.

Javelin Throw

1908	Erik Lemming	Sweden	179′ 10½″
1912	Erik Lemming	,,	198′ 11¼″
1920	Jonni Myyra	Finland	215′ 9¾″
1924	Jonni Myyra	,,	206′ 6¾″
1928	Erik Lundquist	Sweden	218′ 6⅛″
1932	Matti Jarvinen	Finland	238′ 7″
1936	Gerhard Stoeck	Germany	235′ 8 5/16″
1948	Tapio Rautavaara	Finland	228′ 10½″
1952	Cy Young	U.S.	242′ ¾″
1956	E. Danielson	Norway	281′ 2¼″
1960	Viktor Cybulenko	U.S.S.R.	277′ 8 3/8″
1964	Pauli Nevala	Finland	271′ 2¼″
1968	Lusis	U.S.S.R.	295′ 7¼″
1972	Klaus Wolfermann	W. Germany	90·48 metres.

Decathlon

Year	*Winner*	*Country*	*Points*
1912	Hugo Wislander	Sweden	7724·49
1920	Helge Lovland	Norway	6804·35
1924	Harold Osborn	U.S.	7710·77
1928	Paavo Yrjola	Finland	8053·29
1932	James Bausch	U.S.	8462·23
1936	Glenn Morris	,,	7900·00
1948	Robert Mathias	,,	7139·00
1952	Robert Mathias	,,	7887·00
1956	Milton Campbell	,,	7937·00
1960	Rafer Johnson	,,	8392·00
1964	Willie Holdorf	Germany	7877·00
1968	Toomey	U.S.	8193·00
1972	Nikolai Avilow	U.S.S.R.	8454·00

WOMEN'S

100 Metre Dash

Year	*Winner*	*Country*	*Time (Seconds)*
1928	Elizabeth Robinson	U.S.	12·2
1932	Stanislawa Walasiewicz	Poland	11·9
1936	Helen Stephens	U.S.	11·5

Women's 100 Metrh Dash — (*Contd.*)

Year	*Winner*	*Country*	*Time (Seconds)*
1948	Fanny Blankers-Koen	Netherlands	11·9
1952	Marjorie Jackson	Australia	11·5
1956	Betty Cuthbert	,,	11·5
1960	Wilma Rudolph	U.S.	11·0
1964	Wyomia Tyus	,,	11·4
1968	Wyomia Tyus	,,	11·0
1972	Renate Stecher	E. Germany	11·07

200 Metre Dash

Year	*Winner*	*Country*	*Time (Seconds)*
1948	Fanny Blankers-Koen	Netherlands	24·4
1952	Marjorie Jackson	Australia	23·7
1956	Betty Cuthbert	,,	23·4
1960	Wilma Rudolph	U.S.	24·0
1964	Edith Mcguire	,,	23·0
1968	Szewinska	Poland	22·5
1972	Renate Stecher	E. Germany	22·4

800 Metre Dash (*mts. secs.*)

1928	Linda Radke	Germany	2·16·8
1960	Ljudmilla Sehvcova	Poland	2·04·3
1964	Ann Packer	G.B.	2·01·1
1968	Manning	U.S.	2·00·9
1972	H. Falck	W. Germany	1·58·6

4 × 400 Metre Relay

Year and winner respectively: 1928 Canada; 1932 U.S.; 1936 U.S.; 1948 Netherlands; 1952 U.S.; 1956 Australia; 1960 U.S.; 1964 Poland; 1968 U.S.; 1972 W. Germany.

80 Metre Hurdles

Year	*Winner*	*Country*	*Time (Seconds)*
1932	Mildred Didrikson	U.S.	11·7
1936	Trebisonda Villa	Italy	11·7
1948	Fanny Blankers-Koen	Netherlands	11·2
1952	Shirley Strickland de la Hunty	Australia	10·9
1956	Shirley Strickland de la Hunty	,,	10·7
1960	Irina Press	U.S.S.R.	10·8
1964	Karin Balzer	Germany	10·5
1968	Caird	Australia	10·3

High Jump

Year	*Winner*	*Country*	*Height*
1928	Ethel Catherwood	Canada	5′ 3″
1932	Jean Shiley	U.S.	5′ 5¼″
1936	Ebolya Csak	Hungary	5′ 3″
1948	Alice Coachman	U.S.	5′ 6⅛″
1952	Esther Brann	S. Africa	5′ 5¾″
1956	Mildred Macdaniel	U.S.	5′ 9¼″
1960	Iolanda Balas	Rumania	6′ ¼″
1964	Iolanda Balas	,,	6′ 2¾″
1968	Rezkova	Czechoslovakia	5′ 11¾″
1972	Ulrike Meyfarth	E. Germany	1·92 metres

Discus Throw

Year	*Winner*	*Country*	*Length*
1928	Helena Konopacka	Poland	129′ 11⅞″
1932	Lillian Copland	U.S.	133′ 2″
1936	Gisela Mauermayer	Germany	156′ 3 3/16″
1948	Micheline Ostermayer	France	137′ 6½″
1952	Nina Romaschkova	U.S.S.R.	168′ 8½″
1956	Olga Fikotova	Czechoslovakia	165′ 7″
1960	Nina Ponomareva	U.S.S.R.	180′ 8¼″
1964	Tamara Press	,,	187′ 10¾″
1968	Manoliu	Rumania	191′ 2½″
1972	Faina Melnik	U.S.S.R.	66·62 metres

Javelin Throw

Year	*Winner*	*Country*	*Length*
1932	Mildred Didrikson	U.S.	143′ 4″
1936	Tilly Fleischer	Germany	148′ 2¾″
1948	Herma Bauma	Austria	149′ 6″
1952	Dana Zatopekova	Czechoslovakia	165′ 7″
1956	Inessa Janzeme	U.S.S.R.	176′ 8″
1960	Elvira Ozolina	,,	183′ 8″
1964	Mihaela Penes	Rumania	198′ 7½″
1968	Nemeth	Hungary	198′ ½″
1972	Ruth Fuchs	E. Germany	63·88 metres

Shot-Put

1948	Micheline Ostermayer	France	45′ 1½″
1952	Galina Zybina	U.S.S.R.	50′ 1½″
1956	Tamara Tishkyeovich	,,	54′ 5″
1960	Tamara Press	,,	56′ 9⅞″
1964	Tamara Press	,,	59′ 6¼″
1968	Gummel	E. Germany	64′ 4″
1972	Nadezhda Chizhova	U.S.S.R.	21·03 metres

Long Jump

1948	Olga Gyarmati	Hungary	18′ 8¼″
1952	Yvette Williams	New Zealand	20′ 5¾″
1956	Elizbeita Krezeskinska	Poland	20′ 9¾″
1960	Vera Krepkina	U.S.S.R.	20′ 10¾″
1964	Mary Rand	G.B.	22′ 2½″
1968	Niscopoleanu	Rumania	22′ 4½″
1972	Heide Rosendahl	W. Germany	6·78 metres

SWIMMING

Men's

Year	*Winner*	*Country*	*Time (mts. seconds)*
	100 Metre Freestyle		
1972	Mark Spitz	U.S.	0·51·22
	200 Metre Freestyle		
1972	Mark Spitz	U.S.	1·52·78
	400 Metre Freestyle		
1972	Brad Cooper	Australia	4·00·27
	1,500 Metre Freestyle		
1972	Michael Burton	U.S.	15·52·58
	4 × 100 Metre Freestyle		
1972	Dave Edgar, John Murphy, Jerry Heidenreich, Mark Spitz	U.S.	3·26·42

Swimming Men's — *(Contd.)*

Year	*Winner*	*Country*	*Time (mts. seconds)*
	4 × 200 Metre Freestyle		
1972	John Kinsella, Frederick Tyler, Steven Genter, Mark Spitz	U.S.	7·35·78
	100 Metre Breaststroke		
1972	Nobutaka Taguchi	Japan	1·04·94
	200 Metre Breaststroke		
1972	John Hencken	U.S.	2·21·55
	100 Metre Butterfly		
1972	Mark Spitz	U.S.	0·54·27
	200 Metre Butterfly		
1972	Mark Spitz	U.S.	2·00·70
	100 Metre Backstroke		
1972	Roland Matthes	E. Germany	0·56·58
	200 Metre Backstroke		
1972	Roland Matthes	E. Germany	2·02·82
	200 Metre Relay		
1972	Gunnar Larsson	Sweden	2·07·17
	400 Metre Relay		
1972	Gunnar Larsson	Sweden	4·31·98
	4 × 100 Metre Medley		
1972	M. Stamm, T. Bruce, M. Spitz, J. Heidenreich	U.S.	3·48·16
	WOMEN'S		
	100 Metre Freestyle		
1972	Sandra Neilson	U.S.	0·58·59
	200 Metre Freestyle		
1972	Shane Gould	Australia	2·03·56
	400 Metre Freestyle		
1972	Shane Gould	Australia	4·19·04
	800 Metre Freestyle		
1972	Keena Rothhammer	U.S.	8·53·68
	4 × 100 Metre Freestyle		
1972	Sandra Neilson, Jennifer Kemp, Jane Barkman, Shirley Babashoff	U.S.	3·55·19
	100 Metre Breaststroke		
1972	Catherine Carr	U.S.	1·13·58
	200 Metre Breaststroke		
1972	Beverley Whitefield	Australia	2·41·71
	100 Metre Butterfly		
1972	Mayumi Aoki	Japan	1·03·34
	200 Metre Butterfly		
1972	Karen Moe	U.S.	2·15·57
	100 Metre Backstroke		
1972	Melissa Belote	U.S.	1·05·78
	200 Metre Backstroke		
1972	Melissa Belote	U.S.	2·19·19
	200 Metre Individual Medley Relay		
1972	Shane Gould	Australia	2·23·07
	400 Metre Individual Medley Relay		
1972	Gail Neall	U.S.	5·02·97
	4 × 100 Metre Medley Relay		
1972	Melissa Belote, Catherine Carr, Deena Dearduff, Sandra Neilson	U.S.	4·20·75

DIVING

Men's

Year	*Winner*	*Country*	*Points*
	Springboard		
1972	Vladimir Vasin	U.S.S.R.	594·09
	Platform		
1972	Klaus Dibiasi	Italy	504·12
	Women's		
	Springboard		
1972	Micki King	U.S.	450·03
	Platform		
1972	Ulrika Knape	Sweden	390·00

JUDO (1972)

Light weight : *Winner :* Takao Kawaguchi (Japan); **Welter weight :** Toyokaza Nomura (Japan); **Middle weight :** Shinobu Sekine (Japan); **Light Heavy weight:** Shota Chochoshvili (Russia); **Heavy weight:** Wim Ruska (Holland); **Open Category :** Wim Ruska (Holland).

MODERN PENTATHLON (1972)

Individual : *Winner :* Andras Balezo (Hungary); **Team:** Russia (Boris Onischenko, Pavel Lednev, Vladimir Shmelev).

GYMNASTICS (1972)

Men

(All-round Competition, 12 exercises combined.)

Team : *Winner :* Japan; **Individual :** Sawao Kato (Japan); **Side Horse:** Viktor Klimento (Russia); **Floor Exercise :** Nikolai Andrianov (Russia); **Horse Vault :** Klaus Koeste (E. Germany); **Rings :** Akinori Nakayama (Japan); **Parallel Bars :** Sawao Kato (Japan); **Horizontal Bars:** Mitsuo Tsukahara (Japan).

Women

Team: *Winner :* Russia; **Individual:** Ludmilla Tourischeva (U.S.S.R.); **Floor Exercise :** Olga Korbut (U.S.S.R.); **Horse Vault:** Karin Janz (E. Germany); **Balance Beam :** Olga Korbut (U.S.S.R.); **Uneven Parallel Bars :** Karin Janz (E. Germany).

WRESTLING (1972)

Freestyle

Light Fly weight : *Winner :* Roman Dmitriev (Russia); **Fly weight :** Ki Yomi Kato (Japan); **Bantam weight :** Hideaki Yanagida (Japan); **Feather weight :** Zagalev Uddulbekov (Russia); **Light weight :** Dan Gable (U.S.A.); **Welter weight :** Wayne Wells (U.S.A.); **Middle weight ;** Leven Tediashvili (Russia); **Light Heavy weight :** Ben Peterson (U.S.A.); **Heavy weight** Ivan Yarygin (Russia); **Super Heavy weight :** Alexander Medved (Russia).

Greco-Roman

Light Fly weight : *Winner :* Gheorghe Berceanu (Rumania); **Fly weight :** Peter Kirov (Bulgaria); **Bantam weight:** Rustom Kazakov (Russia); **Feather weight :** Gheorghi Markov (Bulgaria); **Light weight** Shamil Khizamutdinov (Russia); **Middle weight:** Hegedus Czaba (Hungary); **Light Heavy weight:** Nicolae Martinescu (Rumania); **Super Heavy weight :** Anatoly Roshin (Russia).

WEIGHTLIFTING (1972)

Winner and weight (kg.) respectively:

Flyweight : Z. Smalcerz (Poland), 337·5; **Bantam weight :** Imre Foeldi (Hungary), 377·5; **Feather weight :** Norair Nourikian (Bulgaria), 402·5; **Light weight :** Mukharbi Kirzhinov (Russia), 460·0; **Middle weight :** Yordan Bikov (Bulgaria), 485·0; **Light Heavy weight :** Leif Jenssen (Norway), 507·5; **Middle Heavy weight :** Andon Nikolov (Bulgaria); 525·0; **Heavy weight :** Yan Talts (U.S.S.R.), 580·0; **Super Heavy weight :** Vasili Alexeev (U.S.S.R.), 640·0.

HANDBALL (1972)

Winner : Yugoslavia.

BASKETBALL (1972)

Winner : U.S.S.R.

VOLLEYBALL (1972)

Winners : Men: Japan; Women: U.S.S.R.

SHOOTING (1972)

Winner : (Country) and points scored respectively.

Free Pistol : Ragnar Shanaker (Sweden), 567; Jorge Henao (Colombia), 535; **Rapid Fire Pistol :** Jozef Zapedzki (Poland) 595; **Small Bore Rifle :** (Prone position): Ho Jun Li (N. Korea), 599; (3 positions): John Writer (U.S.A.), 1166; **Free Rifle :** Lones Wigger (U.S.A.), 1155; **Moving Target :** Lakov Zhelezniak (U.S.S.R.), 569; **Trap :** Angelo Scalzone (Italy), 199; **Skeet :** Konrad Wirnhier (W. Germany), 195.

BOXING (1972)

Light Fly weight : Georgy Gedo (Hungary); **Fly weight :** Gheorghe Kostadinov (Bulgaria); **Bantam weight :** Orlando Martiney (Cuba); **Light weight :** Jan Szczepanski (Poland); **Light Welter weight :** Ray Seales (U.S.A.); **Welter weight :** Emilio Correa (Cuba); **Light Middle weight :** Dieter Kottysch (W. Germany); **Middle weight :** Vyacheslav Lemechev (U.S.S.R.); **Light Heavy weight :** Mate Parlov (Yugoslavia); **Heavy weight :** Teofile Stevenson (Cuba).

CYCLING (1972)

100 KM Team Time Trial : U.S.S.R. (Boris Chouhov, Valeri Lardy, Gennady Komnatov, Valery L. Khachey); **100 KM Individual :** Hennie Kuiper (Holland): **1000 M Time Trial :** Niels Fredborg (Denmark); **Scratch Sprint :** Daniel Morelon (France); **Tandem :** Russia; **Team Pursuit :** W. Germany.

FENCING (1972)

Men

Foil Team : Poland; **Foil Individual :** Witold Woyda (Poland); **Sabre Team :** Italy; **Sabre Individual :** Viktor Sidiak (U.S.S.R.); **Epee Team :** Hungary; **Epee Individual :** Csaba Fenyvesi (Hungary).

Women

Foil Team : Russia; **Foil Individual :** Antonell Ragno Lonzi (Italy).

ROWING (1972)

Winner (Country) and time (in mts. seconds) respectively.

Single Sculls : Y. Malishev (Russia), 7·10·12; **Coxed Pairs :** East Germany, 7·17·25; **Coxless Pairs :** S. Brietzke and W. Mager (E. Germany), 6·57·6; **Double Sculls :** A. Timoshinin and G. Korshikov (Russia), 7·01·77; **Coxed Fours :** W. Germany, 6·31·85; **Coxless Fours :** E. Germany, 6·24·27; **Eights :** New Zealand 6·08·94.

CANOEING (1972)

Winner (Country) and time (in mts. seconds) respectively.

Kayak Singles : A. Shaperenko (Russia), 3·48·06; **Canadian Singles :** I. Patzai Chin (Rumania), 4·8·94; **Kayak Pairs :** N. Gorbachev and V. Kratassyuk (U.S.S.R.), 3·31·23; **Canadian Pairs :** V. Chessyunas and Y. Lobanov (U.S.S.R.), 3·52·60; **Kayak Fours :** U.S.S.R., 3·14·02.

Olympic Football

Year and Winner respectively: 1912 Great Britain; 1920 Belgium; 1924 Uruguay; 1928 Uruguay; 1936 Italy; 1948 Sweden; 1952 Hungary; 1956 Soviet Union; 1960 Yugoslavia; 1964 Hungary; 1968 Hungary; 1972 Poland.

WORLD CUP SOCCER

The Jules Rimett Cup : 1930 Uruguay; 1934 Italy; 1938 Italy; 1950 Uruguay; 1954 W. Germany; 1958 Brazil; 1962 Brazil; 1966 England; 1970 Brazil; 1972 Holland; 1973 Brazil; 1974 West Germany.

NATIONAL FOOTBALL

Santosh Trophy : Year and winner respectively: 1953 Bengal; 1954 Bombay; 1955 Bengal; 1956 Hyderabad; 1957 Hyderabad; 1958 Bengal; 1959 Bengal; 1960 Services; 1961 Railways; 1962 Bengal; 1963 Maharashtra; 1964 Bengal; 1965 (not played); 1966 Andhra Pradesh; 1967 Mysore; 1968 Mysore; 1969 Bengal; 1970 Punjab; 1971 Bengal; 1972 Bengal; 1973 Kerala; 1974 Punjab.

Rovers Cup : Year and winner respectively: 1953 Hyderabad Police; 1954 Hyderabad Police; 1955 Mohan Bagan; 1956 Mohamedan Sporting; 1957 Hyderabad Police; 1958 Caltex; 1959 Mohamedan Sporting; 1960 Andhra Pradesh Police; 1961 E.M.E. Secunderabad; 1962 East Bengal — Andhra Pradesh Police; 1963 Andhra Pradesh Police; 1964 Bengal Nagpur Railway; 1965 (not played); 1966 Mohan Bagan; 1967 East Bengal; 1968 Mohan Bagan; 1969 East Bengal; 1970 Mohan Bagan; 1972 East Bengal and Mohan Bagan; 1973 East Bengal; 1974 Dempo S.C.

I.F.A. Shield : Year and Winner respectively: 1954 Mohan Bagan; 1955 Rajasthan S.C.; 1956 (not held); 1957 Mohamedan Sporting; 1958 East Bengal; 1959 Abandoned; 1960 Mohan Bagan; 1961 Mohan Bagan; 1962 Mohan Bagan; 1963 Bengal Nagpur Railway; 1964 East Bengal; 1965 (Not played); 1966 Mohan Bagan; 1967 East Bengal — Mohan Bagan; 1968 Mohan Bagan — Mohamedan Sporting; 1969 (not held); 1970 East Bengal; 1971-1972 not played; 1973 East Bengal; 1974 East Bengal.

Durand Cup : Year and winner respectively: 1953 Mohan Bagan; 1954 Hyderabad Police; 1955 Madras Regimental Centre; 1956 East Bengal; 1957 (not held); 1958 (not held); 1959 Mohan Bagan; 1960 East Bengal; 1961 Andhra Pradesh Police; 1962 (not held);; 1963 Mohan Bagan; 1964 Mohan Bagan; 1965 (not held); 1966 Gorkha Brigade; 1967 East Bengal; 1968 Border Security Force; 1969 Gorkha Brigade; 1970 East Bengal; 1971 (not played); 1972 East Bengal; 1973 Border Security Force; 1974 Mohan Bagan.

TENNIS

Davis Cup : Year and winner respectively: 1900 U.S.; 1902 U.S.; 1903 British Isles; 1904 British Isles; 1905 British Isles; 1906 British Isles; 1907 to 1909 Australia; 1911 Australia; 1912 British Isles; 1913 U.S.; 1914 Australia; 1919 Australia; 1920 to 1926 U.S.; 1927 to 1932 France; 1933 to 1936 G.B.; 1937-38 U.S.; 1939 Australia; 1946 to 1949 U.S.; 1950 to 1953 Australia; 1954 U.S.; 1955 to 1957 Australia; 1958 U.S.; 1959 to 1962 Australia; 1963 U.S.; 1964 to 1967 Australia; 1968 to 1972 U.S.; 1973 Australia; 1974 South Africa (by default).

OLYMPIC HOCKEY

Year and winner respectively: 1908 Great Britain; 1920 Great Britain; 1928 India; 1932 India; 1936 India; 1948 India; 1952 India; 1956 India; 1960 Pakistan; 1964 India; 1968 Pakistan; 1972 Germany.

HOCKEY (NATIONAL)

Rangaswamy Cup : Year and winner respectively: 1953 Services; 1954 Madras Services; 1955 Services; 1956 Railways; 1957 Railways; 1958 Railways; 1959; Services; 1960 Services; 1961 Railways; 1962 Railways; 1963 Railways; 1964 Punjab; 1965 (not held); 1966 Railways-Madras; 1967 Railways; 1968 Punjab; 1969 Punjab-Railways; 1970 Punjab; 1971 Punjab; 1972 Punjab; 1973 Services; 1974 Railways.

Aga Khan Cup : Year and winner respectively: 1953 Lusitanian S.C.; 1954 Punjab; 1955 Bombay City Police; 1956 (not held); 1957 Burmah-Shell; 1958 Northern Railway; 1959 Punjab Police; 1960 I.H.F. Presidents XI; 1961 Maratha L.I.; 1962 North Eastern Railway; 1963 Mohan Bagan; 1964 Punjab Police; 1965 (not held); 1966 Punjab Police; 1967 Western Railway; 1968 Punjab Police; 1969 (not played); 1970 (not played); 1971 Indian Air Lines; 1972-74 (not played); 1975 Northern Rly.

Beighton Cup : Year and winner respectively: 1953 Tata S.C.; 1954 Western Railway-Uttar Pradesh; 1955 Services; 1956 East Bengal; 1957 Mohan Bagan; 1958 Corps of Signals; 1959 Mohan Bagan; 1960 Central Railway; 1961 Central Railway; 1962 Central Railway; 1963 Mohan Bagan; 1964 Mohan Bagan-Customs A.C.; 1965 (not held); 1966 East Bengal; 1967 Mohan Bagan; 1968 (not held); 1969 Western Railway; 1970 Western Railway, 1971 Mohan Bagan and B.S.F. (Jt. holders); 1973 Mohan Bagan and Indian Hockey Federation Dark Blues (Jt. holders); 1974 Mohun Bagan.

CRICKET

TEST MATCHES : **with England :** 1932 (In England) India lost the only match played by 158 Runs; 1933-34 (In India) India lost 2 and drew 1; 1936 (In England) India lost 2 and drew 1; 1946 (In England) India lost 1 and drew 2; 1951-52 (In India) India won 1, lost 1, and drew 3; 1952 (In England) India lost 3 and drew 1; 1959 (In England) India lost 5; 1962 (In India) India won 2 and drew 3; 1964 (In India) All 5 Test drawn; 1967 (In England) India lost all 3 tests; No matches were held during 1968 to 1970; In 1971, (In England) India won one and drew two. In 1972 (In India) India won two, lost one, and two were drawn; In 1974 (In England) India lost all 3 tests.

Australia : 1947 (In Australia) India lost 4 and drew 1; 1956 (In India) India lost 2 and drew 1; 1959-60 (In India) India won 1, lost 2, and drew 2; 1964 (In India) India won 1, lost 1 and drew 1; 1967-68 (In Australia) India lost all 4; 1969-70 (In India) India won 1, lost 3 and drew 1.

West Indies : 1948 (In India) India lost 1 and drew 4; 1953 (In West Indies) India lost 1 and drew 4; 1958 (In India) India lost 2 and drew 3; 1962 (In West Indies) India lost all 5; 1966-67 (In India) India lost 2 and drew 1; 1971 (In West Indies) played 5 test matches (India won 1, drew 4) India got rubber; 1974-75 (In India) played 5 tests (India won 2 and lost 3).

Pakistan : 1952 (In India) India won 2, lost 1 and drew 3; 1954 (In Pakistan) All 5 Tests drawn; 1960-61 (In India) All 5 Tests drawn.

New Zealand : 1955-56 (In India) India won 2 and drew 3; 1965 (In India) India won 1 and drew 3; 1968 (In New Zealand) India won 3 and lost 1; 1969 (In India) India won 1, lost 1 and drew 2; 1970 (In India) India won 1, lost 1, and drew 1 (Played three test matches).

RANJI TROPHY

Championship 1934-1973

Year	*Winner*	*Runner up*
1934-35	Bombay	Northern India
1935-36	Bombay	Madras
1936-37	Nawanagar	Bengal
1937-38	Hyderabad	Nawanagar
1938-39	Bengal	Southern Punjab
1939-40	Maharashtra	United Provinces
1940-41	Maharashtra	Madras
1941-42	Bombay	Mysore
1942-43	Baroda	Hyderabad
1943-44	Western India	Bengal
1944-45	Bombay	Holkar
1945-46	Holkar	Baroda
1946-47	Baroda	Holkar
1947-48	Holkar	Bombay
1948-49	Bombay	Baroda
1949-50	Baroda	Holkar
1950-51	Holkar	Gujarat
1951-52	Bombay	Holkar
1952-53	Holkar	Bengal
1953-54	Bombay	Holkar
1954-55	Madras	Holkar
1955-56	Bombay	Bengal
1956-57	Bombay	Services
1957-58	Baroda	Services
1958-59	Bombay	Bengal
1959-60	Bombay	Mysore
1960-61	Bombay	Rajasthan
1961-62	Bombay	Rajasthan
1962-63	Bombay	Rajasthan
1963-64	Bombay	Rajasthan
1964-65	Bombay	Hyderabad
1965-66	Bombay	Rajasthan
1966-67	Bombay	Rajasthan
1967-68	Bombay	Madras
1968-69	Bombay	Bengal
1969-70	Bombay	Rajasthan
1970-71	Bombay	Maharashtra
1971-72	Bombay	Bengal
1972-73	Bombay	Tamil Nadu
1973-74	Karnataka	Rajasthan
1974-75	Bombay	Karnataka

DULEEP TROPHY TOURNAMENT

Year	*Winner*	*Runner up*
1961-62	West Zone	South Zone
1962-63	West Zone	South Zone
1963-64	West Zone South Zone	
1964-65	West Zone	Central Zone
1965-66	South Zone	Central Zone
1966-67	South Zone	West Zone
1967-68	South Zone	West Zone
1968-69	West Zone	South Zone
1969-70	West Zone	North Zone
1970-71	South Zone	East Zone
1971-72	Central Zone	West Zone
1972-73	West Zone	Central Zone
1973-74	North Zone	Central Zone
1974-75	South Zone	West Zone

ALCOHOL INDUSTRY

WINE, SPIRIT & BEER

The liquor industry in the organised sector was set up at the turn of the last century although some units were started much earlier. The Indian liquor industry today manufactures wine, potable alcohol such as whisky, brandy, rum and gin and the breweries manufacture beer.

LOCATION OF THE INDUSTRY

The industry is located all over the country with the major units in the States of Himachal Pradesh, Uttar Pradesh, West Bengal, Andhra Pradesh and Karnataka. Recently units have been set up in Bihar, Maharashtra, Goa, Punjab and Haryana. At present most of the units are in the private sector and there are proposals to set up units in the public sector also. One project in the Punjab will be under the joint sector. The liquor industry is subjected to rigorous controls enforced by the Excise Department. Manufacture and distribution is controlled by the State Governments.

Production : Production of liquor in 1971 was 59,968 kilolitres.

EXPORTS

Export of Indian liquor in the last 3 years is given below :

(Value in Rs.)

	1971–72 April/ March	1972–73 April/ March	1973 April/ October
Beer	53,530	1,359,887	8,819
Brandy ..	240	—	—
Liqueurs ..	19,816	74,939	104,003
Whisky ..	2,183	21,240	13,884
Others	19,420	76,288	26,050
TOTAL ..	166,198	1,532,354	152,756

IMPORTS

Under the existing import policy established importers are permitted quota licences upto 3 per cent. The basic period for the purpose of calculating the quotas has been from 1951-52 to 1968-69. The imports for the last 3 years are given below :—

(Value in Rs.)

	1971–72 April/ March	1972–73 April/ March	1973 April/ October
Wine	373,654	361,906	272,912
Beer	24,865	70,412	14,248
Brandy	192,334	191,148	126,125
Liqueurs ..	31,986	44,535	30,025
Whisky ..	1,686,260	1,253,819	634,212
Others	97,093	74,512	56,651
TOTAL ..	2,406,192	1,996,332	1,134,173

PROHIBITION

The AICC under the chairmanship of Dr. Sushila Nayyar adopted a resolution on November 5, 1968 advising all State Governments, and particularly Congress Governments, to endeavour to bring about complete prohibition and to draw up a programme so that the policy be implemented in a period of seven years beginning October 2, 1969.

This directive, however, received a major set back in recent years since the State Governments found that they were losing revenue on one side and incurring heavy expenditure on the enforcement of the policy. As a result there was a gradual shift away from prohibition. Now only Gujarat and Tamil Nadu have total prohibition and the rest of the States have either partial prohibition or are totally wet.

Some important units

1. Mohan Meakin Breweries Ltd.,
   P.O. Solan Brewery, Himachal Pradesh.
2. The Rampur Distillery and Chemical Co. Ltd.,
   Rampur 244901, Uttar Pradesh.
3. Carew & Co. Ltd.,
   Rosa, Shahjehanpur Dist., Uttar Pradesh.
4. Daurala Sugar Works,
   Daurala, Meerut Dist., Uttar Pradesh.
5. E.I.D. Parry Ltd.,
   P.B. No. 12, Madras, Tamil Nadu.
6. Jagatjit Industries Ltd.,
   Jagatjitnagar, Kapurthala Dist., Punjab.
7. Narang Industries Ltd.,
   P.O. Sugar Factory, Nawabganj, Gonda Dist., Uttar Pradesh.
8. Shaw Wallace & Co. Ltd.,
   Bhadrakali, Hooghly Dist., West Bengal.
9. Udaipur Distillery Co. (P) Ltd.,
   Udaisagar Rd., Udaipur, 313001, Rajasthan.
10. Kolhapur Sugar Works Distillery,
    Kasba Baroda, P.O. New Palace,
    Kolhapur, Maharashtra.
11. Kalyani Breweries Ltd.,
    18, Industrial Area, Block "D",
    Kalyani, West Bengal.

INDUSTRIAL ALCOHOL

It is a very valuable material in the manufacture of acetone, acetic acid, ammunition, ether, chloroform, ethyl acetate, polyethylene, styrene, polystyrene, synthetic rubber, etc. It is also necessary as a solvent in the manufacture of fine chemicals, medical preparations, toilets, etc.

There are at present 104 distilleries with a total installed capacity of 0·55 million kilolitres. On account of shortage of coal and furnace oil the distilleries will hardly work 50% of their capacities.

ARECANUT INDUSTRY

ARECANUT is one of the most important commercial crops of India. It plays an important role in the religious, social and cultural life of our people irrespective of caste, creed or social status. Chewing of arecanut with betel leaves and lime (Thamboolam, Pan Supari) has become a habit with a large number of people and a luxury for many in this country.

Betel-nut (processed arecanut) varieties are numerous in India and can be broadly classified into unboiled, boiled and coloured varieties.

LOCATION OF THE INDUSTRY

The chief arecanut growing States are Kerala, Karnataka and Assam. These States account for nearly 90 per cent of the total area and production. It is also cultivated to a smaller extent in certain areas of Meghalaya, West Bengal, Tamil Nadu, Maharashtra, Andhra Pradesh and Goa. The State-wise break-up of the area under arecanut cultivation is given below.

(In thousand hectares)

State	1970-71	1971-72	1972-73
Kerala	85·8	86·7	88·7
Karnataka	41·0	43·2	43·9
Assam	23·1	25·9	27·1
Meghalaya	6·3	6·0	6·0
Tamil Nadu	4·0	5·0	3·9
West Bengal	3·1	3·1	3·1
Maharashtra	2·3	2·3	2·3
Andhra Pradesh ..	0·2	0·2	0·2
Goa	1·4	1·4	1·4
Mizoram	0·1	—	—
Total Area	167·3	173·8	176·7

No. of Persons Employed : About four million.

Ranking in the World Market : India ranks first in the world both in the area and production of arecanut.

The main arecanut producing countries in the world and their latest available production figures are given below.

Country	Production (Tonnes)
India	151,700
Bangla Desh	21,448
Sri Lanka	56,670
Malaysia	N.A.

N.A. : Information not available.

CONSUMPTION

National consumption for the last three years, 1970-71 : 140,748 tonnes; 1971-72 : 146,898 tonnes; 1972-73 : 151,495 tonnes.

The overall average per capita consumption of betel-nut in India is estimated at 0·33 kg. In Kerala it is 0·67 kg. and in Karnataka 0·66 kg. Among the cities, Delhi and Nagpur are two of the most important consuming markets.

EXPORTS

Arecanut is exported in small quantities to countries like Nepal, Kenya, Aden, Saudi Arabia etc. mainly for the use of Indian settlers abroad. The quantity exported during 1969-70 was 226 tonnes valued at Rs. 2·07 million; during 1970-71 it was 252 tonnes valued at Rs. 2·40 million; during 1971-72 it was 292 tonnes valued at Rs. 2·72 million; and during 1972-73 it was 221 tonnes valued at Rs. 1·93 million.

IMPORTS

Production of arecanut in the past had been short of internal demand and sizable quantities had to be imported to fill the gap, but the shortfall has since been almost covered by increasing local production. No major import of arecanut has taken place since 1968-69. However, a small quantity of 90 tonnes had to be imported in 1971-72 and 16 tonnes in 1972-73.

PRODUCTION

The total value of arecanut produced in India is about Rs. 1,000 million. The State-wise break-up of the production is given below :

(In thousand tonnes)

State	1970-71	1971-72	1972-73
Kerala	53·0	53·4	54·6
Karnataka	50·4	56·3	59·5
Assam	25·1	29·0	29·3
Meghalaya	4·2	0·8	0·8
Tamil Nadu	2·8	2·3	1·8
West Bengal	0·8	0·8	0·8
Maharashtra	3·2	2·8	3·0
Andhra Pradesh ..	0·2	0·2	0·2
Goa	1·3	1·5	1·7
Total Production (National)	141·0	147·1	151·7

GENERAL

Yield per hectare 857 kgs.; cost of cultivation per hectare Rs. 1,420; and gross income earned per hectare Rs. 3,375.

Since production has reached a stage of self-sufficiency investigations are being made to find alternate uses of arecanut besides chewing.

Pilot trials conducted have shown that fat, alcohol etc. can be extracted and products like chewing gum, tooth paste etc. can be prepared from arecanut kernel. The liquid obtained while boiling tender nuts ('Kali') can be utilised for tanning leather. Hard board, wrapping paper, cushioning materials etc. can be made out of arecanut husk. Arecanut leak-sheath can be made use of for making soles and heels in shoe making industry. Arecanut husk is also an excellent poultry litter.

A new high-yielding variety "Mangala" has been released from the Central Plantation Crops Research Institute's Regional Station at Vittal, South Kanara for cultivation. This variety, an introduction from China, gives 70 per cent more yield than that of the best local ones, besides being an early bearer.

There are 26 arecanut marketing co-operative societies located in Kerala, Karnataka, Tamil Nadu, Maharashtra and Goa.

In view of the fall in prices during 1971 a Central Inter-State Co-op. Marketing Society has been formed under the joint auspices of Kerala and Karnataka Governments for purchasing, storing and selling of arecanut. The society with headquarters at Mangalore has started procuring arecanuts through its eight purchasing centres established in Kerala and Karnataka.

The Directorate of Arecanut and Spices Development of the Department of Agriculture, Government of India, is situated at 1/500, Cannanore Rd., Calicut-673005, Kerala.

FIFTH FIVE-YEAR PLAN

The requirement of arecanut by the end of the V Plan period is estimated to be 160,000 tonnes. No expansion of area is contemplated during the Plan period and slight increase in the production is proposed to be achieved by adoption of intensive cultivation of the existing areas.

Publication : 'Arecanut and Spices' (Quarterly bulletin) brought out by the Directorate of Arecanut and Spices Development, Calicut-673005, Kerala.

AUTOMOBILE INDUSTRY

BRIEF HISTORY : Leading foreign manufacturers, recognising the scope, established assembly plants at Bombay, Calcutta and Madras. But, with Independence, two Indian factories — the Premier Automobiles Ltd. and Hindustan Motors Ltd.— were set up for progressive manufacture rather than for assembly from imported components. In 1953, acting on the recommendations of the Tariff Commission, Government terminated the activities of assemblers and restricted the number of makes and models so as to ensure economic volume of output. Again, on the recommendations made by the Tariff Commission in 1956, Government granted protection to the Industry for ten years with priority for manufacture of commercial vehicles, increased production of diesel vehicles and expansion of capacity of existing units.

The automobile industry depends upon its ancillaries for the manufacture and supply of over 50 per cent of the 5,000 components that go into making an automobile.

LOCATION OF THE INDUSTRY: The bulk of the automobile and ancillary manufacturing units are located in Maharashtra and Tamil Nadu. Of the 17 manufacturers of automobiles, including tractors and two-cum-three wheelers, 6 are in Maharashtra, 4 in Tamil Nadu, with Andhra Pradesh, Bihar, Gujarat, Haryana, Karnataka, Madhya Pradesh, Punjab and West Bengal having one each. The pattern of location of the 160 automobile ancillary manufacturing units is 60 in Maharashtra, 33 in Tamil Nadu, 24 in Delhi, 10 in West Bengal, 9 in Haryana, 7 in Gujarat, 7 in Karnataka, 5 in Punjab, 3 in Andhra Pradesh, 1 in Madhya Pradesh and 1 in Rajasthan.

No. of Persons Employed : The main vehicle sector employs over 60,000 in direct employment and the ancillaries in this sector engage the services of over 45,000 people in their manufacturing centres. Total employment is around 3·5 million.

Capital Investment : 2,540 million. In the ancillary industry Rs. 600 million. The investment both in the automobile dealer network and the spare parts trade is approximately Rs. 1,000 million.

G. N. P. of the Industry : The value of the automobile industry's products and services is in the region of Rs. 24,000 million, which constitutes approximately 8 per cent of the total industrial production of the country.

Licensed Capacity : At the end of 1974 was 75,400 commercial vehicles, 47,400 passenger cars, 20,000 jeeps and 172,000 other vehicles.

Cost Structure : The industry continued to suffer from high cost of production as in the earlier year. Raw materials accounted for 59·3 per cent of the total value of production and salaries and wages for 14·1 per cent. Depreciation cost and other expenses accounted for 7·0 per cent and 13·5 per cent respectively.

Defence Vehicles : The Defence establishments manufacture *Shaktiman* trucks through an agreement with M.A.N. of West Germany and *Nissan* 1-ton trucks and *Nissan* (Jonga) jeep type vehicles. The vehicle factory at Jabalpur was established in 1969 for the manufacture of 6,000 *Shaktiman* 3-tonne trucks and 7,200 *Nissan* trucks and petrol vehicles per annum. From the information available the current rate of production of *Nissan* trucks and *Nissan* petrol vehicles is 200 nos. and 100 nos. per month, respectively.

Ranking in World Market :

WORLD PRODUCTION OF AUTOMOBILES

(Monthly averages) (thousands)

Country		1961	1971	Increase over 1961 (%)
U.S.A.	A	462·0	720·0	55·8
	B	94·0	171·0	81·9
Japan	A	20·8	309·6	1,388·5
	B	65·8	175·4	166·6
West Germany	A	159·0	308·0	93·7
	B	20·3	23·1	13·8
France	A	82·3	224·5	172·8
	B	18·1	28·5	57·5
U.K.	A	83·7	145·2	73·5
	B	38·4	38·0	—1·1
Italy	A	57·8	141·8	145·8
	B	5·48	9·66	76·3
India	A	2·39	4·19	70·7
	B	2·13	3·12	46·5
WORLD (k)	A	96·50	2,071·7	114·7
	B	322·5	550·8	70·8

(k) excludes China ; A : Passenger cars — motor vehicles usable as cars seating less than eight persons ; B : Commercial vehicles.

EXPORTS : The export of automobiles and ancillaries by value during the last three years is indicated below :

(Rs. in million)

Year	Automobiles	Ancillaries	Total Value of Exports
1970-71 ..	148·4	60·6	209·0
1971-72 ..	67·8	51·9	119·7
1972-73 ..	53·3	75·5	128·8

Export of Automobiles (Nos.)

Year	Buses & Trucks	Cars & Jeeps	Chassis/ Engines	Motor Cycles & Scooters
1970-71 ..	1,975	1,502	1,060	159
1971-72 ..	1,022	129	469	532
1973 (March)	411	559	427	—

Export Incentive : Cash assistance of 20 per cent for commercial vehicles.

Production

	1971	1972	1973	1974
Cars	38,316	38,828	39,937	36,009
Jeeps	11,053	12,518	13,071	10,015
Commercial vehicles	41,854	38,702	49,910	42,617
Motorcycles	39,770	47,561	48,760	53,683
Scooters	67,211	63,832	78,082	85,667
Three-Wheelers	6,146	9,790	11,336	12,619
Mopeds	13,738	21,606	22,398	26,910
Tractors	22,363	17,083	20,120	24,500

GENERAL: Almost all vehicles produced in the country are 98 per cent indigenous.

Ancillary Products: There are more than 150 units in the recognised automobile ancillary sector producing all spare parts and components required except for a few items. The production of various categories of spare parts and components during 1971-72 and 1972-73 by value are as under :—

(Rs. in million)

	1971-72	1972-73
Engine Parts	479	533
Electrical Parts	124	140
Drive, Transmission and Steering Parts	273	296
Suspension and Braking Parts	303	299
Equipment	65	72
Chassis and Body Parts	49	41
Miscellaneous	151	168
Total	1,448	1,549

Research, Development and Training: Research and testing facilities for automobiles and automobile ancillaries are available at the *Central Mechanical Engineering Research Institute*, Durgapur, the *Indian Institute of Science*, Bangalore 560012, the *National Test House*, Alipore, and the *National Metallurgical Laboratory*, Jamshedpur, which have been utilised by some automobile and ancillary manufacturers. (See the chapter on Research for the addresses.)

In co-operation with the C.S.I.R. an Automotive Research Association has been incorporated. Product testing and development was likely to commence during 1974.

Manufacturing Units: The country now has seven approved manufacturers of automobiles, one manufacturer of engines and five manufacturers of motorcycles, scooters and three-wheelers and two manufacturers of Mopeds. The names of manufacturers and the products manufactured by them are as under :

Automobile Manufacturers

Hindustan Motors Ltd., Uttarpara. *Hindustan Ambassador* cars, and *Hindustan* trucks & buses in the range of 1 tonne to 7½ tonnes.

Premier Automobiles Ltd., Bombay. *Premier President* cars, *Premier Pioneer* and *Premier Roadmaster* trucks and buses in the range of 1 tonne to 7½ tonnes.

Standard Motor Products of India Ltd., Madras. *Standard Herald Mark III* cars and *Standard* 1 tonne trucks and *Gazel* cars.

Ashok Leyland Ltd., Madras. *Leyland Comet* trucks and buses, *Beaver*, *Hipo* and *Jumbo* trucks in the range of 5 tonnes to over 16 tonnes.

Tata Engg. & Locomotive Co. Ltd., Bombay. *Tata* trucks and buses in the range of 5 tonnes to 9 tonnes and 3-axle 10 tonnes Dumpers.

Mahindra & Mahindra Ltd., Bombay. *Jeep* type vehicles and ¾ tonne FC 150 and FC 160 trucks.

Bajaj Tempo Ltd., Pune. *Tempo Hanseat* 3-wheeler and *Tempo Viking* and *Matador* 4-wheeler in the ¾ tonne to 1.6 tonnes range.

Engine Manufacturer: *Simpson & Co. Ltd.*, Madras, P6 V and P6/354 vehicular diesel engines.

Motorcycles, Scooter, Moped & Three Wheeler Manufacturers: *Automobile Products of India Ltd.*, Bombay, *Lambretta* scooters and three-wheelers.

Bajaj Auto Ltd., Pune. Bajaj scooters and three-wheelers 150 cc.

Escorts Ltd., New Delhi. *Rajdoot* motorcycles and Scooters.

Enfield India Ltd., Madras. *Enfield* motorcycles: *Bullet* 350cc, *Crusader* 175 cc, *Fantabulous* 175 cc; scooters and three-wheelers.

Ideal Jawa (India) Pvt. Ltd., Karnataka. *Jawa* "YAZDI" motorcycles.

Pearl Scooters, Ludhiana (Punjab). *Pearl Yamaha* scooters 50 cc.

Mopeds India Ltd., Tirupati (A.P.). *Suvega* Mopeds 50 cc.

Saund Zweirad Union (India) Pvt. Ltd., New Delhi. *Vicky* Mopeds 50 cc.

Kinetic Engg. Pvt. Ltd., Pune, *Luna* Mopeds 50 cc.

Kirloskar Ghatge Patil, Kolhapur, *Laxmi* Mopeds 50 cc.

Tractor Manufacturers: *Escorts Ltd.*, New Delhi. *Escort* tractors.

Escorts Tractors Ltd., New Delhi. *Ford* tractors.

Hindustan Tractors Ltd., Vadodara. *Hindustan* tractors.

International Tractor Co. of India Ltd., Bombay. *International* tractors.

Eicher Tractors Ltd., Haryana. *Eicher* tractors.

Tractors & Farm Equipment Ltd., *Massey Ferguson* tractors.

H.M.T., Bangalore, *Zetor* tractors.

Punjab Tractors, *Swaraj*.

Associations: 1. Association of Indian Automobile Manufacturers, Army & Navy Bldg., M. Gandhi Rd., Bombay-400023. 2. All India Automobile & Ancillary Industries Association, 80, A. Besant Rd., Bombay 400018. 3. Automotive Research Association of India, 123/1, Law College Rd., Pune 411001.

Publications: (1) 'Automobile Ancillaries and Accessories', (Bi-Monthly), 20, Noble Chambers, Parsee Bazar St., Bombay-400001. (2) 'Automobile News' (monthly), Arun Chambers, J. Dadajee Rd., Bombay-400034. (3) 'Autoguide' (Monthly), 47, Shardhanand Marg, Delhi 110006. (4) 'Auto Spark' (Monthly), Vijay Nivas, Juhu Lane, Bombay 400058. (5) 'Mobile' (Monthly), 11B, Ramachandra Iyer St., Madras 600017.

STATE-WISE DISTRIBUTION OF MOTOR VEHICLE AS ON MARCH 31, 1974

States	Cars	Taxis	Jeeps	Buses	Goods Vehicles	Misc. Vehicles	Auto-Rick-shaws	Motor Cycles & Scooters	Total
Maharashtra	116,040	17,308	15,408	13,348	66,683	20,014	7,849	113,770	370,420
Delhi	65,019	4,794	3,694	4,161	17,757	—	12,941	131,682	240,048
West Bengal	86,209	8,851	4,223	10,993	43,714	11,146	1,186	34,442	200,764
Gujarat	35,258	2,328	10,123	8,395	39,977	17,807	11,283	78,184	203,355
Karnataka	33,872	2,243	6,350	9,374	21,569	13,579	9,083	69,888	165,958
Andhra Pradesh	32,117	2,952	7,961	8,475	22,083	14,671	1,895	53,171	143,325
Tamil Nadu	48,939	9,222	5,830	9,439	21,462	4,236	3,006	52,956	155,090
Uttar Pradesh	31,999	2,342	7,255	9,580	30,552	3,289	754	57,453	143,224
Kerala	39,148	9,489	5,283	7,525	14,941	4,118	1,629	20,409	102,542
Madhya Pradesh	16,941	1,085	6,739	5,922	21,621	8,628	2,440	38,288	101,664
Bihar	21,230	3,340	8,636	5,340	19,680	5,260	919	33,413	97,818
Rajasthan	22,071	1,484	808	7,878	19,433	11,829	694	25,196	89,393
Assam	13,438	1,040	6,002	2,952	15,893	7,964	382	7,781	55,452
Punjab	11,856	985	1,667	4,065	12,179	2,899	1,590	35,346	70,587
Orissa	5,423	2,018	5,874	1,966	10,124	2,588	340	12,483	40,816
Goa, Daman & Diu	4,313	52	85	1,486	4,717	—	61	5,180	15,894
Chandigarh	1,457	54	139	176	51	300	522	4,518	7,217
Tripura	259	231	1,144	283	1,295	127	2	428	3,769
Jammu & Kashmir	3,590	576	1,025	1,695	4,643	452	300	3,672	15,953
Himachal Pradesh	631	201	797	764	2,193	308	2	1,861	6,757
Pondicherry	1,623	80	109	100	302	375	36	2,301	5,066
Manipur	455	24	944	298	1,128	218	—	441	3,508
Nagaland	601	30	690	45	660	—	20	657	2,703
Andaman & Nicobar Isld.	174	40	141	96	381	130	—	428	1,390
Dadra & Nagar Haveli	84	3	23	—	32	17	153	224	536
Total	592,747	70,772	100,950	114,356	393,070	130,095	57,087	784,172	2,243,249

Note : Chandigarh, & Haryana are included in Punjab. (Miscellaneous vehicles figures are estimated).

CASHEW-NUT INDUSTRY

BRIEF HISTORY

THE cashew tree (Anacardium Occidentale), a native of South America was introduced into India by the Portuguese who planted the first saplings on the west coast during the sixteenth or seventeenth century to check soil erosion. Finding a congenial home it grew extensively and is known as 'Feringi Mango' (Feringi meaning Portuguese).

Despite its early introduction the value of the cashew-nut was discovered only in the nineteen twenties when some enterprising farmers sent the nut abroad. There was an immediate demand for the cashew kernel in raw or roasted form which marked the beginning of the cashew industry.

The cashew-nut grows at the bottom end of the cashew "apple". The fruit, when ripe, is juicy and sweet and rich in vitamin C. The juice is used in the preparation of syrup, squash, jam, candy and wine.

The cashew kernel is extracted from the nut by roasting, shelling and peeling scientifically so that every drop of cashew nut shell liquid is drained and collected. This dark brown viscous oil is easily soluble in most of the organic solvents and is an important raw material in the manufacture of insulating varnishes, paints, typewriter rolls, oil and acid proof cold setting cements, industrial flooring tiles, automobile brake-linings and also in the plastic industry.

LOCATION OF THE INDUSTRY

Out of about 300 processing factories in the country 264 are in Kerala State and the others in Tamil Nadu, Karnataka, Andhra Pradesh and Maharashtra.

Public Sector : The Kerala State Cashew Development Corpn. Ltd. Quilon, opened its first factory in July, 1970 by taking over a factory owned privately. By the end of 1974, the number of factories taken over increased to 34

Ranking in the World Market : India accounts for about 65 per cent of the world export of cashew kernels.

PRODUCTION AND CONSUMPTION

The yearly local production of raw cashew nuts, according to the Directorate of Cashew-nut Development, is

140,000 tonnes out of which about 100,000 tonnes go to processing factories. The trade estimate of availability of raw nuts for processing is, however, placed at around 70,000 tonnes only.

EXPORTS

A **Cashew Export Promotion Council** (at World Trade Centre, M. Gandhi Road, Ernakulam, Cochin 682016, Kerala), was set up in 1955.

India used to monopolise the exports of processed cashew kernels until Kenya, Mozambique and Tanzania set up their own units

Cashew industry ranks second to jute in dollar earnings and is regarded as one of the top seven.

Export Duty : There is a one per cent *ad valorem* cess on exports of cashew kernels. The tariff value for cashew kernels fixed for this purpose for the year 1974-75 (July-June) is Rs. 1,000 per quintal.

Export of Cashew Kernels

(Quantity in Tonnes)

Countries	1971-72	1972-73	1973-74
U.S.A.	27,065	21,985	18,122
U.S.S.R.	18,808	24,048	19,958
U.K.	1,816	1,896	1,207
East Germany.. ..	1,038	2,174	567
Australia	1,242	1,168	1,154
Canada	3,922	6,248	2,960
France	202	433	72
Japan	1,286	1,998	3,229
Netherlands	925	1,212	809
Hong Kong	856	1,039	548
West Germany.. ..	464	1,209	956
Czechoslovakia ..	705	874	648
Lebanon	136	198	227
Belgium	168	179	169
Malaysia & Singapore..	399	454	385
New Zealand	79	25	33
Iran	115	149	56
Poland	137	82	10
Sweden	15	15	19
Italy	72	90	138
Spain	32	21	15
Kuwait	101	126	195
Switzerland	40	94	93
Bahrain..	105	61	81
Total exports including other countries ..	60,378	66,278	51,971
Value in Rs. million ..	613	688	736

India earned Rs. 901·0 million through export of cashew kernels during Jan.–Nov. 1974. This represented an increase of Rs. 194·4 million over the corresponding period in 1973.

Export of Cashew-nut Shell Liquid

(Tonnes)

Countries	1970-71	1971-72	1972-73
U.K.	3,217	3,002	2,355
U.S.A.	1,337	163	485
Japan	1,956	2,113	1,655
Australia	15	19	—
Netherlands ..	145	58	131
South Korea ..	85	135	110
Total exports including other countries ..	7,026	56,08	4,985
Value in Rs. Million	7·8	6·3	5·7

During Jan.-Sept. 1974 the export of cashewnut shell liquid totalled 3,374 tonnes valued at Rs. 7·2 million as against 3,462 tonnes valued at Rs. 3·99 million in the previous year.

IMPORTS

The domestic supply of raw nuts is inadequate to meet the total requirements of the processing factories. The shortfall is made-up by importing raw nuts. This is being done by the Cashew Corporation of India Ltd., a subsidiary of State Trading Corporation, which was set up on August 19, 1970. The raw nuts are sold by the Corporation to the eligible allottees and the sales are conditional on a commitment by the allottees to effect exports of kernels corresponding to the raw nuts supplied. However, there is a grave threat to the continued imports of the required quantity of raw nuts with the progressive utilisation of raw nuts by the cashew industry developed in the different East African countries.

Import of raw cashew-nuts from East African countries and new sources of supplies like Madagascar and West African countries during 1973-74 amounted to 157,554 tonnes valued at Rs. 305·2 million.

The import of raw cashew-nuts during Jan.–Sept. 1974 was 125,426 tonnes valued at Rs. 284·6 million against 137,676 tonnes valued at Rs. 225·9 millions in the previous year.

GENERAL : According to the study made by GATT, a good average crop from a mature plantation tree is around 10 kgs. in East Africa and 30 kgs. in India.

In Africa, the average yield of kernels is about 21 to 24 per cent of raw nut weight, while in India it is slightly higher. Indian processors claim to be able to get upto 70 per cent whole kernels, while the mechanical processing plants in Africa record upto 65 per cent.

The Indian cashew trade has been able to hold its own in the world market because of its competitive price even though some of the African countries have started factories adopting mechanical processes. The poor technology in the cashew industry in Kerala in which the operations are done manually accounts for the investment per worker being as low as about Rs. 300 per worker. Over 90 per cent of the workers are women who perform such delicate operations as shelling, peeling and grading of the nut.

Factories Closed : A majority of the cashew factories including 34 run by the public-sector Kerala State Cashew Development Corporation had been closed indefinitely from January 1, 1975 owing to non-availability of raw nuts.

Publication : 'Cashew Bulletin' (monthly) and Indian Cashew Journal (quarterly), C/o Cashew Export Promotion Council, World Trade Centre, Mahatma Gandhi Road, Ernakulam, Cochin 682016.

CEMENT INDUSTRY

BRIEF HISTORY

Cement, though it may not have been known by that name, is an ancient building material. Evidence of its use is believed to have been found in the Indus civilisation of Mohen-jo-daro. The Greeks are also known to have made extensive use of it, but it is to the Romans that the credit must go for having evolved concrete from cement.

Although cement was first manufactured in India near Madras in 1904, it was not until 1914 that the foundations of a stable Indian cement industry were really laid. In October 1914, the first bag of cement was packed at Porbandar by the Indian Cement Company Ltd. (Agents: Tata Sons & Co.). This company then had a capacity of only 1,000 tonnes. Today there are 58 units in the country and the capacity is 19·86 million tonnes.

LOCATION OF THE INDUSTRY

The State-wise break-up of the units is as follows:

Andhra Pradesh 6, Assam 1, Bihar 7, Gujarat 5, Haryana 2, Jammu & Kashmir 1, Karnataka 5, Kerala 1, Madhya Pradesh 5, Maharashtra 1, Orissa 2, Rajasthan 4, Tamil Nadu 7, and Uttar Pradesh 2.

Public Sector : Out of 58 units 8 are in the public sector. The break-up of these is as follows:

Assam: Assam Cements Ltd.; *Jammu & Kashmir:* J & K Mining and Mineral Corporation; *Karnataka:* Mysore Iron & Steel Ltd.; *Madhya Pradesh:* The Cement Corporation of India Ltd., Mandhar; *Orissa:* The Industrial Development Corporation of Orissa Ltd.; *Tamil Nadu:* Tamil Nad Cements; *Uttar Pradesh:* U. P. Government Cement Factory, one at Churk and the other at Dalla.

Expansion: Production capacity will be increased by 12 million tonnes by the end of the Fifth Plan. The share of large industrial houses will be 4·04 million tonnes, public sector 5·67 million tonnes and about 2 million tonnes will be allotted to others.

No. of Persons Employed : About 85,000 including workers in quarries.

Production Losses : On the basis of 85 per cent utilisation of capacity the production during 1973-74 was about 16·8 million tonnes.

Contribution to Gross National Product : In 1970 it was Rs. 750 million (Approx.).

Ranking in the World Market : India is the 9th largest cement producer in the world. The first eight countries are the USSR, USA, Japan, West Germany, Italy, France, U.K. and Spain.

PRODUCTION AND CONSUMPTION: In 1974 production was 16·8 million tonnes as against 15·7 million tonnes in 1972. Capacity utilisation in 1974 was 85 per cent.

CAPACITY AND PRODUCTION OF CEMENT
1970-72

(million tonnes)

		South	West	East	North	Total
1970	a.	6·1	5·3	3·0	2·6	16·9
	b.	5·4	3·9	2·4	2·3	13·9
	c.	3·5	3·5	2·7	4·0	13·6
1971	a.	7·1	5·6	3·3	3·4	19·4
	b.	6·0	4·3	2·3	2·3	14·9
	c.	4·1	4·0	2·4	4·1	14·5
1972	a.	7·4	5·6	3·3	3·4	19·7
	b.	6·0	4·5	2·5	2·7	15·7
	c.	4·1	4·2	2·8	4·4	15·5

a — capacity; b — production; and c — consumption.

Regional Anomaly : The cement industry faces a peculiar problem of transport. Cement factories are largely concentrated in the southern and western regions of the country because high grade limestone is more abundantly available there, whilst the demand for cement is higher in the northern and eastern regions.

The northern region contributes 17·6 per cent to the total production and consumes 27·5 per cent. The eastern region produces 17·8 per cent and consumes 21·3 per cent. The corresponding figures for the western region are 28·3 per cent production and 26·0 per cent consumption and in the southern region 36·3 per cent is produced and 25·2 per cent consumed.

Production of Cement in India & Other Countries in 1970 (in million tonnes). U.S.S.R.: 89·4; U.S.A.: 70·5; Japan: 48·1; West Germany: 36·7; Italy: 31·5; France: 28·1; U.K.: 17·6; Spain: 15·9; India: 13·9.

Per Capita Consumption (in kgs.): In terms of per capita consumption India ranks 15th in the world.

Switzerland: 715; Austria: 593; West Germany: 563; Sweden: 481; Belgium: 463; France: 457; Italy: 426; Canada: 398; Netherlands: 378; Spain: 377; Japan: 365; U.S.S.R.: 343; U.S.A.: 342; U.K.: 305; India: 26.

EXPORTS

Year			Quantity in tonnes	Value Rs.
1968–69	..	..	205,285	22,609,565
1969–70	..	..	134,905	16,649,030
1970–71	..	..	168,448	20,261,620
1971–72	..	..	193,156	24,922,564

Export Incentives : The Central Government announced a cash subsidy of Rs. 80 per tonne of export quality cement to compensate for the use of furnace oil.

GENERAL: 1973-74 was a very bad year for the cement industry which suffered set backs in production, profitability and sales due to drastic power cuts, coal shortage, railway wagon shortage, expensive and limited quantities of furnace oil and controlled prices.

Demand : It is estimated that the gap between demand and supply is likely to widen to 7·3 million tonnes by the end of the Fifth Plan (1978-79).

Training and Research : Industry has set up a research institute called the *Cement Research Institute of India* at M-10, South Extension II, Ring Road, New Delhi 110016. A well equipped laboratory project with training facilities for scientists will be available at Faridabad, 32 kms. from New Delhi. Basic research in cement technology will be undertaken at the laboratory. The whole project is estimated to cost about Rs. 20 million and is to be completed in 5 years.

Ten Largest Units :

The Associated Cement Cos., Ltd., 121, Maharshi Karve Road, Bombay 400020.

The India Cements Ltd., 4th Floor, Dhun Bldg., 175/1, Mount Road, Madras 600002.

The Jaipur Udyog Ltd., P.O. Ram Krishna Lok, Sawai-Madhopur (W. Rly.), Rajasthan 322001.

Shree Digvijay Cement Co. Ltd., Shree Niwas House, Waudby Road, Fort, Bombay 400001.

Birla Jute Mfg. Co. Ltd., Satna Cement Works, Satna 485001, Madhya Pradesh.

Saurashtra Cement & Chemical Industries Ltd., Ranavav 2, Gujarat.

Dalmia Cement (Bharat) Ltd., Dalmiapuram, Madras.

Mysore Cements Ltd., No. 1, Vidhana Veedhi, P.B. No. 115, Bangalore 560001.

Orissa Cement Ltd., Rajgangpur, Orissa.

Panyam Cements & Mineral Industries Ltd., Cementnagar P.O., Dhone Tq., Kurnool Dist., Andhra Pradesh.

Publication : 'Cement', C/o Cement Manufacturers' Association, Express Bldg., Churchgate, Bombay 400020.

COFFEE INDUSTRY

BRIEF HISTORY

THE coffee plant is thought to have originated in the highlands of Abyssinia. About 400 years ago coffee became established as a beverage in Arabia and Turkey from where it eventually came to Europe and to London in 1652.

The plant is believed to have been introduced in India by a Muslim saint who came from Mecca and made his home in Karnataka. Some of the hilly areas of the State where coffee plantations abound even today, bear his name Baba Budan.

Although the saint came to India over a hundred years ago its status as a commercial crop came only with the first British planters around 1850. Now the plantations are spread over vast hilly tracts of Karnataka, Tamil Nadu and Kerala.

A small tree with many branches the coffee plant usually reaches heights ranging from 4·57 to 6·09 metres. The fruit is red and contains two interlinked seeds. These separated constitute the commercial coffee berry, and this, roasted and ground, produces the coffee powder.

LOCATION OF THE INDUSTRY

Coffee Arabica and Coffee Canephora (Robusta) are the two types of coffee grown on a commercial scale in India. The total area under coffee in the country is 146,458 hectares. The Arabica coffee occupies 88,141 hectares as against 58,317 hectares under Robusta.

Karnataka with 61 per cent of the total area under coffee in the country comes first followed by Kerala with 22 per cent, Tamil Nadu 16 per cent and 1 per cent shared by Andhra Pradesh, Maharashtra, Orissa, Assam, West Bengal and the Andaman and Nicobar Islands.

Of 52,696 coffee estates in the country, 50,767 are small holdings having an area of ten hectares and below. Karnataka has 19,158 small holdings and 1,403 large holdings.

No. of Persons Employed: 236,295.

Ranking in the World Market: Indian coffee contributes about 1·2 per cent of the world trade in coffee. In 1972 the total world exports were 3,475,260 tonnes of which India exported 32,640 tonnes (or 1·4 per cent) valued at 38 million US dollars.

Per Capita Consumption (in kg.): 1970 : 0·0615 ; 1971 : 0·0692 ; 1972 : 0·0653; 1973 : 0·0670.

EXPORTS

Indian coffee is exported to U.S.A., Canada, West Germany, Belgium, Netherlands, France, United Kingdom, Sweden, Norway, East Germany, Yugoslavia, USSR, Poland, Hungary, Middle East and Australia.

Exports of coffee for fiscal years 1972-73 to 1973-74 based on the data of the Director-General of Commercial

PRODUCTION & CONSUMPTION

Production and Internal Consumption of Coffee in India — 1971-72 to 1973-74.

Season	National Production (in tonnes)			Calendar Year	Internal Consumption (in tonnes)		
	Ar.	Rob.	Total		Ar.	Rob.	Total
1971–72 ..	44,030	24,918	68,948	1971	20,387	17,517	37,904
1972–73* ..	61,800	29,200	91,000	1972	20,146	17,306	37,452
1973–74* ..	43,500	41,500	85,000	1973	19,436	19,945	39,381

Note : Ar. : Arabica. Rob. : Robusta. * Provisional.

State-wise Production of Coffee 1970-71 to 1973-74 (in Tonnes).

Season	Tamil Nadu			Karnataka			Kerala			All India Total**		
	Arabica	Robusta	Total	Arabica	Robusta	Total	Arabica	Robusta	Total	Arabica	Robusta	Total
1970–71 ..	5,151	2,668	7,819	51,346	30,275	81,621	1,427	18,863	20,290	58,348	51,883	110,231
1971–72 ..	6,349	1,452	7,801	36,298	15,181	51,479	1,075	8,222	9,297	44,030	24,918	68,948
1972–73* ..	5,720	1,060	6,780	54,595	18,310	72,905	1,090	9,830	10,920	61,800	29,200	91,000
1973–74* ..	6,150	2,000	8,150	35,995	23,145	59,140	1,080	16,350	17,430	43,500	41,500	85,000

* Estimates subject to revision. ** Inclusive of production of other Indian States not mentioned separately.

India's total coffee output during 1974-75 is estimated at 90,000 tonnes.

Intelligence and Statistics, Calcutta, is given in the table below :

Fiscal Year	Quantity of Coffee Exported (In Tonnes)	Value Realised (In Rs.)
1971–72	35,695	220,718,325
1972–73	50,855	329,296,908
1973–74	52,688	460,130,467
1974–75 (11 months)	48,675	513,400,000

Export Targets : as fixed in the Fifth Five Year Plan.

Fiscal Year	Export targets (In Tonnes)
1974–75	55,500
1975–76	58,264
1976–77	61,291
1977–78	63,980
1978–79	67,630

Export Duty : An export duty of Rs. 25 and Customs Cess of Rs. 4·75 is levied on 50 kgs.

Export Promotion Council : Coffee Board, Vidhana Veedhi, Bangalore 560001.

GENERAL

The powder of **chicory** roots is blended with coffee to enhance its taste. India produces about 6,000 to 7,000 tonnes of chicory roots per year which yields about 4,000 to 4,500 tonnes of chicory powder.

Cultivation of chicory is concentrated in Coimbatore and Nilgiri districts of Tamil Nadu, Jamnagar in Gujarat and Munnar and Vattavada in Kerala. In India the consumption of chicory is around 600 to 700 tonnes per annum.

New Plantation : A coffee plantation on 810 hectares in Paderu forest area of Andhra Pradesh was inaugurated in August 1972 with a view to rehabilitate 600 families of repatriates from Sri Lanka (Ceylon). The Central Ministry of Rehabilitation has given a loan of Rs. 8·1 million to the Andhra Pradesh Forest Department to implement this scheme.

Publication : (1) 'Indian Coffee', a monthly brought out by the Coffee Board. (2) 'Journal of Coffee Research', a quarterly dealing with technical papers is published by the research department of the Coffee Board.

COIR INDUSTRY

COIR is the natural versatile golden fibre extracted from the husk, the outer covering of the coconut. 'Cocos Fibre' popularly known as coir is classed among the industrial hard fibres which cater to the world market in the form of fibre, spun yarn, floor coverings, curled coir, rubberised coir products and rope.

BRIEF HISTORY

The word 'coir' has an historical background. The fact that it is derived from the Malayalam word 'kayar' meaning cord, shows that this material first became known as a product of the Malabar coast. As early as the 11th century A.D. Arab writers have mentioned coir and referred to the uses of this material as ship's cables and rigging. During the 13th century, the great traveller Marco Polo mentioned the method of using coir yarn in the building of ships in the Persian Gulf, which is identical to that prevailing on the west coast of India at the present time.

It was not in India, as one would have thought, but in England that coir was first put to practical use. About 125 years ago three partners of a London carpet firm registered their patents for the manufacture of coir fibre into various fabrics suitable for floor coverings.

The development of the coir industry in India began in 1859 when a simple method of coir spinning and weaving on the coast of Malabar was introduced by an enterprising American of Irish origin. Many others soon followed with the increased demand for coir goods in England and on the Continent. Ever since these humble beginnings, coir products have been improving in quality, quantity and variety.

LOCATION OF THE INDUSTRY

The coir industry is mainly confined to the coastal strip of Kerala. However, in recent years, other coconut producing States have also made a start in this profitable industry.

Statewise location of the industry is as follows :

Kerala :		
Husk Retters	23,500	units
Spindle Spinning	24,000	,,
Hand Spinning	85,000	,,
Products Mfg.	1,960	,,
Powerloom Matting	3	,,
Rope Making	62	,,
Defibering	6	units
Rubberised Coir	3	,,
Karnataka :		
Fibre Extraction	35	,,
Tamil Nadu :		
Rope Making	926	,,
Yarn Spinning	710	,,
Fibre Extraction	4	,,
Rubberised Coir	1	,,
Andhra Pradesh :		
Fibre Extraction	3	,,
Production Centres	7	,,
Maharashtra :		
Departmental Coir Factory	1	,,
Fibre Extraction	1	,,
Production Centres	8	,,
Orissa :		
Production Centres	5	,,
West Bengal :		
Fibre Extraction	3	,,
Rubberised Coir/Curling	1	,,
Coir Rope-Making	12	,,
Gujarat :		
Production Centres	4	,,
Goa, Daman & Diu :		
Production Centres	685	,,
Defibering Centres	3	,,

Laccadive, Minicoy and Amindivi Islands* :	
Defibering Centres (*Exclude hand spinning units)	1* units
Pondicherry :	
Production Centres	2 „
Andaman & Nicobar :	
Production Centre	1 „

Public Sector : Hindustan Coir Ltd. at Kalavoor near Alleppey in Kerala is the only factory in the public sector. It is run by the Coir Board, and primarily produces coir floor coverings.

No. of Persons Employed: There are about 500,000 persons employed in this industry which is mainly a cottage industry.

Ranking in the World Market: The total volume of coir entering the world trade either as raw fibre or in the form of spun yarn and manufactured products is about 159,420 tonnes. Raw fibre alone accounts for 99,700 tonnes of this while processed coir goods account for only 59,720 tonnes. India's share in world trade of coir and coir goods is as follows: coir yarn 98 per cent, coir manufactures 75 per cent, coir cordages and ropes 95 per cent.

PRODUCTION AND CONSUMPTION

The world production of coir is concentrated very largely on the western coastal areas of India and Ceylon. These are the only two countries in which widespread commercial production is undertaken even though coconuts are grown in abundance elsewhere. India accounts for about 52 per cent of the total production of the coir in the world.

Estimated annual output of coir in principal producing countries is as follows:

WORLD PRODUCTION OF COIR

Country	*Thousand tonnes*
India	155·0
Sri Lanka	115·0
Tanzania	8·5
Bangladesh	5·8
Thailand	3·0
Philippines	2·5
Burma	2·2
Kenya	2·0
Seychelles	1·9
Malaysia	1·5
Mozambique	1·0
Morocco	0·5
Total	293·9

The annual production of coir in India is estimated at 155,000 tonnes, of this total 95 per cent is produced in Kerala State and the remaining portion comes chiefly from the States of Tamil Nadu and Karnataka.

The All-India estimated annual production of coir and coir products of different commodities are : Coir fibre : 155,000 tonnes ; Coir yarn : 134,000 tonnes ; Coir products : 27,000 tonnes ; Coir ropes : 20,000 tonnes ; Curled coir : 2,000 tonnes ; Rubberised coir goods : 1,300 tonnes.

In order to expand the home market for coir and coir products, the Coir Board has opened show rooms and sales depots in important cities like Bombay, Calcutta, New Delhi, Madras, Bangalore, Cochin and recently in Madurai, Bhubaneshwar. The Board has also appointed 33 accredited dealers throughout the country.

EXPORTS

Coir export from India is directed to more than 110 countries in the world. The following table indicates the quantity and the foreign exchange (in rupees) earned through these exports during the last three years.

The exports of coir and coir products during April–June 1974 were 10,744 tonnes valued at Rs. 43·45 million.

Export Duty : Coir yarn exports are subjected to an export duty of 15 per cent.

The Coir Industry Act gives powers to the Union Government to levy a cess on export of coir and coir products. At present the cess levied on coir fibre and yarn is at the rate of 98 paise per quintal. Nearly Rs. 290,556 were collected under this head in 1973–74.

To achieve some sort of stability in price index, floor prices have been fixed for the popular varieties of coir mats, coir mattings and coir yarn exported. The prices have been revised with effect from Nov. 1, 1973.

There is a scheme of quality control and pre-shipment inspection to prevent the shipment of inferior goods.

GENERAL

Coir Board (Address: Post Box No. 1752, Ernakulam South, Cochin-682016) having representatives from the industry and Government officials, was established in the year 1953. The function of the Board has been to promote the development of coir industry, to help manufacturers in exporting their finished goods and to carry on propaganda for that purpose and also to assist technological research.

Gross National Product: At the time Coir Board was set up the estimated G.N.P. from coir and coir goods was Rs. 128 million. During 1972-73, the G.N.P. from Coir was estimated at Rs. 350 million, recording an increase of over 170 per cent.

Q = Quantity in tonnes.

EXPORT OF COIR AND COIR PRODUCTS

V = Value in Rs. million

Sl. No.	Commodity	1971-72		1972-73		1973-74	
		Q.	V.	Q.	V.	Q.	V.
1.	Coir Fibre	392	0·63	298	0·46	276	0·38
2.	Coir Yarn	30,642	72·24	31,908	81·82	29,373	82·20
3.	Coir Mats	13,498	50·75	12,749	52·63	12,302	57·33
4.	Coir Mattings, Rugs & Carpets	7,101	24·04	3,648	13·25	3,457	14·04
5.	Coir Rope	238	0·38	104	0·16	140	0·28
6.	Curled Coir	441	0·55	773	0·98	1,208	1·55
7.	Rubberised Coir Goods	—	—	—	—	3	0·04
	Total	52,312	148·59	49,489	149·30	46,759	155·82

Source : Daily/Weekly lists of exports issued by the Customs Authorities.

TARGET OF EXPORTS FOR COIR AND COIR PRODUCTS (Revised)

Q = Quantity in tonnes. V = Value in Rs. million

Sl. No.	Commodity	1972-73		1973-74	
		Q.	V.	Q.	V.
1.	Coir Fibre	370	0·60	390	0·70
2.	Coir Yarn	30,000	75·80	30,000	79·60
3.	Coir Mats	13,500	49·00	14,000	52·90
4.	Coir Matting, Rugs and Carpets	5,500	20·80	5,000	21·60
5.	Coir Rope	300	0·50	300	0·50
6.	Curled Coir	600	0·80	700	0·90
7.	Rubberised Coir Goods	7	0·06	10	0·08
	Total	50,277	147·56	50,900	156·28

Training and Research facilities: A Central Coir Research Institute was set up in Kalavoor, Alleppey in Kerala to carry on fundamental as well as applied research. Research work is going on a number of projects designed to bring forth improvements to the existing products as also finding new uses of coir.

The Board also set up a **National Coir Training and Design Centre** at Alleppey to impart advanced and systematic training in the techniques of coir production. An extension service covering the various aspects of coir extraction, processing and manufacture especially spinning, dyeing and weaving was also started.

Rubberised coir producing units have been commissioned in various parts of the country. Rubberised coir is extensively used in the manufacture of mattresses, pillows, moulded cushions, upholstery parts, etc.

Ten Largest Units: 1. William Goodacre & Sons (I) Ltd., Alleppey; 2. Alleppey Company Ltd., Alleppey; 3. Orion Coir Mats and Matting Manufrs. (Pvt.) Ltd., Alleppey; 4. Aspinwall & Co. (Travancore) Ltd., Alleppey; 5. Brothers Coir Mills, Alleppey; 6. Kerala Coir Mats & Matting Co-operative Society Ltd., Alleppey; 7. Shertallai Coir Mats & Matting Co-operative Society Ltd., Shertallai; 8. Charankattu Coir Manufg. Co. (Pvt.) Ltd., Shertallai; 9. Pooppally Coir Mills, Alleppey; 10. Travancore Mats & Matting Co., Shertallai.

Raw Material: The fibrous husk—the outer covering of the coconut is the primary raw material for the coir industry, and as such, the availability of raw material depends on the production of coconuts. World area under coconut cultivation has been estimated at 6,743 thousand hectares and the annual world production of coconuts is reckoned as 30,558·7 million nuts. Philippines is the largest producer of coconuts in the world. India stands third in the list, second being Indonesia.

India produces 6,087·5 million nuts annually on 1,087 thousand hectares that are under coconut cultivation.

30,558·7 million husks were available for industry in the world in 1971-72. In most of the coconut producing countries, coconut is produced mainly for copra, the husks being either buried as fertilizer or discarded. In India itself, it is estimated that out of 6,087·5 million husks available only 50 to 55 per cent is utilised by the industry and the rest is wasted.

In exercise of the powers conferred under section 3 of the Essential Commodity Act, 1955 (10 of 1955) the Central Government has issued orders for the licensing of coir retting places. Government of Kerala accordingly started the scheme of licensing of retting places with effect from December 1, 1969. A new order "The Kerala Coconut Husks Control Order, 1973" under the Defence of India Rules 1971, providing powers to control the prices, production, sale and movement of raw and retted husk was issued on 20th Sept. 1973.

MECHANISATION

The Central Govt. has approved the implementation of a Rs. 150 million scheme for re-organisation of the indnstry.

FIFTH FIVE YEAR PLAN

The Planning Commission has tentatively proposed an outlay of Rs. 24·8 million for Central Scheme and Rs. 130·2 million for State Schemes for the development of the coir industry during the plan period.

Publication: "Coir Quarterly", "Coir News", "Monthly Bulletin of Exports of Coir and Coir Products" and Annual Brochure "India's Production, Exports and Internal Consumption of Coir and Coir Goods", all four brought out by the Coir Board.

COTTON AND COTTON TEXTILE INDUSTRY

COTTON

Brief History: The writings of Marco Polo in the 13th century A.D. and of Tavernier in the 17th century stand testimony to the degree of excellence and perfection achieved by the textile industry in India.

Originally, all cotton cultivated in India grew on the perennial type of plant known as G. Arborium Var Neglectum, which was of Forma Bengalenses in north and western India and of Forma Indicum in central and south India. It is believed that the 'webs of the woven wind'—the world famous Dacca muslin was made from Forma Bengalenses.

Until about the middle of the 18th century Indian textiles reigned supreme in foreign markets. But during the Industrial Revolution in the West, Indian cloth began to lose its overseas market. Realising the significance of the revolution the East India Company changed its role of an exporter of cloth to an exporter of cotton and encouraged a wider cultivation of cotton in India. Thus began the cultivation of cotton as a commercial crop.

AREA UNDER CULTIVATION

India has the largest area in the world under cotton cultivation, which is more than one fourth of the total world acreage.

The area ('000 hectares) under cotton cultivation during last three years was: 1971-72: 7,799·7; 1972-73: 7,704·0; 1973-74: 7,601·4.

(Refer to the Chapter on 'Agriculture' for the Statewise break-up of the area.)

PRODUCTION

Among the Indian States, Gujarat normally accounts for more than one fourth of the country's production of cotton, closely followed by Maharashtra. These two States together produce over half the country's cotton.

The production ('000 bales of 180 kgs. each) of cotton during last three years was : 1971-72 : 6,564·0 ; 1972-73 : 5,488·6 ; 1973-74 : 5,819·2.

(Refer to the chapter on 'Agriculture' for the state-wise break-up of production.)

EXPORTS OF COTTON

Year	'000 bales of 180 kgs. each	Value Rs. million
1971–72	233	216·72
1972–73	174	183·91
1973–74	346	399·70

IMPORTS & CONSUMPTION

Year*	Imports '000 bales†	Value Rs. million	Consumption '000 bales†		
			Indian	Foreign	Total
1971–72 ..	746	1,017·36	5,592	767	6,359
1972–73 ..	442	649·04	5,892	594	6,484
1973–74 ..	178	373·03	6,594	279	6,873

* Cotton year ending August 31. † Bales of 180 kgs. each.

GENERAL

Yield Per Hectare : In spite of India having the largest area under cotton cultivation, the production accounts for less than one tenth of the world cotton output. Indian production has been on an average one bale (180 kgs.) per hectare, against 4 bales produced in Egypt.

COTTON YIELD IN SELECTED COUNTRIES

(kgs. per hectare)

Country	Average yield (1970–71 to 1972–74)
U.S.A.	517
U.S.S.R.	870
Brazil	241
Mexico	786
U.A.R.	776
Peru	555
China	346
Sudan	454
Syria	636
Pakistan	343
India	154
World Average (including others)	374

The Hybrid-4 is credited with a record yield of 8,700 kgs. of kapas per hectare in Bellary district of Karnataka. The average yield from this strain is placed at 3,500 to 4,000 kgs. per hectare, while the average yield per hectare of other varieties is 925 kgs. of kapas in irrigated areas and 250 kgs. in non-irrigated areas.

Cotton Corporation of India Ltd. : Refer to the Chapter on 'All India Corporations'.

Research : Established in 1924 the **Cotton Technological Research Laboratory** at Adenwala Road, Matunga, Bombay 400019, offers facilities for fibre testing and spinning quality evolution of cotton with the result that a large number of improved varieties have been evolved and extended for commercial cultivation.

The laboratory also offers training in cotton technology to sponsored candidates from the textile industry.

Regional Cotton Research Station at Coimbatore, Tamil Nadu of the Indian Agricultural Research Institute does research on the plant breeding aspect of cotton.

Besides this laboratory numerous other agricultural universities conduct research on cotton.

COTTON TEXTILE INDUSTRY

Brief History : The cotton textile industry was the first of Indian modern industries—the base on which the pyramid of Indian industrialisation was built.

LOCATION OF THE INDUSTRY

State-wise break-up of Mills as on 1st January, 1974.

State/Zone	Number of Mills	Installed Spindles (in '000)	Installed Looms
Andhra Pradesh ..	33	540·77	1,246
Assam	2	24·80	—
Bihar	5	53·12	60
Gujarat	117	3,722·53	61,986
Ahmedabad ..	(70)	2,528·33	(46,155)
Haryana	11	228·00	978
Jammu & Kashmir	1	12·60	—
Kerala	28	442·54	1,118
Madhya Pradesh	23	706·03	12,964
Tamil Nadu ..	212	4,316·22	9,105
Coimbatore ..	(115)	(2,176·84)	(3,924)
Maharashtra ..	107	4,705·66	77,838
Bombay	(58)	3,509·23	(62,813)
Karnataka ..	30	707·62	5,882
Orissa	5	115·18	965
Punjab	8	171·82	1,301
Rajasthan ..	21	115·18	3,104
Uttar Pradesh ..	36	377·39	13,403
Kanpur	(14)	523·67	(11,272)
West Bengal ..	40	943·95	9,680
Delhi	4	168·25	3,454
Pondicherry ..	5	127·84	2,681
Goa	1	25·04	—

More than a century old the industry was started largely as a spinning enterprise and gradually developed into a full-fledged composite one. The first power-mill was set up in Bombay by a Parsi pioneer, Mr. Kavasji Nanabhai Davar, in 1854. From then on the industry has held a vital place in the Indian economy.

No. of Persons Employed : It provides direct employment to about 900,000 (20 per cent of all factory labour totalling 4·6 million). Indirect employment runs into several millions.

Capital Investment : Estimated at Rs. 2,700 million and the annual value of the output amounts to Rs. 25,000 million.

Ranking in the World : India occupies second position in terms of spindles (after the U.S.A.), third as exporter of cotton textiles (after Japan and Hongkong), fourth in terms of cotton consumption (after China, U.S.A. and Russia.)

Following table shows the break-up according to ownership and present status. The remaining are all privately owned.

	Number of Mills	Installed Spindles (Million)	Installed Looms (Thousand)
Government Run Mills	103	2·93	46
Co-operative Mills	50	0·79	—
Closed Mills ..	14	0·34	2

PRODUCTION

The actual production of yarn and cloth by the mill sector is as follows :—

Year	Yarn in '000 kg.	Cloth in '000 metres					
		Coarse	Medium B	Medium A	Fine	Superfine	Total
1970	964,756	578,941	1,108,075	1,865,825	219,172	385,081	4,157,094
1971	882,000	503,000	1,038,000	1,753,000	247,000	416,000	3,957,000
1972	972,000	590,000	1,192,000	1,917,000	205,000	341,000	4,245,000
1973	998,000	605,000	1,279,000	1,559,000	368,000	358,000	4,169,000
1974 (P)	1,009,000	—	—	—	—	—	4,299,000

(P) — Provisional.

EXPORTS

Exports of mill-made Cotton Textiles—Fiscal Year Basis

	Cotton Fabrics		Cotton Yarn		Cotton Apparel	Cotton Hosiery	Other cotton manufactures	Total
	Quantity (Million square metres)	Value (Million Rs.)	Quantity (Million kgs.)	Value (Million Rs.)	Value (Million Rs.)	Value (Million Rs.)	Value (Million Rs.)	Value (Million Rs.)
1968–69 ..	451·60	660·87	19·51	128·59	33·02	2·25	150·46	975·19
1971–72 ..	387·14	674·68	14·80	157·77	139·70	4·94	174·27	1,151·36
1972–73 ..	453·26	851·15	21·40	228·28	298·10	9·31	196·56	1,583·40
1973–74 ..	649·68	1,611·54	10·30	112·36	636·52	30·12	343·32	2,724·86

Cotton Textile Export Promotion Council : (Address : Engineering Centre, Mathew Rd., Bombay 400004.) It is an autonomous body and a non-profit making organisation and was set up in 1954 for the promotion of exports of mill-made cotton yarn and piece-goods, cotton manufactures and all hosiery and readymade garments.

GENERAL

Readymade Garments : Exports worth Rs. 202·50 million in 1971–72 rose to Rs. 850 million in 1973–74.

National Textile Corporation Ltd. (Details in the Chapter on All India Corporations.) A public sector undertaking, it was set up in 1968 to take over and run 'sick' textile mills in the country. Similar corporations are also set up in the State sector of Gujarat, Kerala, Maharashtra, Madhya Pradesh, Tamil Nadu and Uttar Pradesh.

Indian Cotton Mills' Federation (ICMF) : (Address : 10, Veer Nariman Rd., Bombay 400001.) Established in March 1958, it is the apex body representing the cotton mill industry of India. The object of ICMF is to watch over, protect and promote the interests of the industry.

Research : Extensive research on cotton textiles is carried out by the following organisations : (1) Ahmedabad Textile Industry's Research Association (ATIRA), P.O. Polytechnic, Ahmedabad 380015, Gujarat. It also has several regional research stations in Gujarat doing research on cotton. (2) Bombay Textile Research Association, Ghatkopar, Bombay 400077. (3) Shri Ram Institute for Industrial Research,19,University Road, New Delhi 110007. (4)South India Textile Research Association, Coimbatore 641014, Tamil Nadu. (5) Textile and Allied Industries Research Organisation, Kala Bhavan, Vadodara-390001 Gujarat.

Publications : (1) *Texprocil Bulletin* (fortnightly), brought out by the Cotton Textile Export Promotion Council; (2) *Indian Cotton Mills' Federation Journal* (monthly), 10, Veer Nariman Rd., Bombay 400001; (3) *Indian Textile Bulletin* brought out by the office of the Textile Commissioner.

FILM INDUSTRY

THE Indian film industry ranks first in the world in terms of production, with an average of about 400 films a year. The industry earns annually about Rs. 2,250 million. Of this, about Rs. 75 million is in foreign exchange.

The industry employs about 200,000 persons. There are about 1,800 independent producers, most of them with units either too small or too unwieldy for economic working.

With so many films produced and with an investment estimated at about Rs. 1,000 million in these films, the Indian film industry is one of the biggest private enterprises in the country. It is also the only entertainment industry in India.

As many as 210 colour films were produced in India during 1974—a record compared to 170 in 1973 and 165 in 1972.

The industry paid Rs. 1,150 million by way of taxes the highest of which is Entertainment Tax, to the government. Entertainment Tax varies from State to State. In most States it is around 70 to 80 per cent, while in Maharashtra it is as high as 120 per cent of the price of the admission ticket.

No. of theatres and cinema houses : With only 7,800 theatres (of which 2,660 are touring cinemas) there is an acute shortage of exhibition facilities. With this shortage, a handful of distributors and exhibitors are able to exercise control over the release of films, creating an artificial imbalance.

The number of cinema houses available — 11 for a population of one million — is among the lowest in the world. Theatre rentals are, therefore, heavy.

Finance : It is procured at exhorbitant rates of interest and projects are formulated on the basis of saleability of the stars, the director or the music director. Distribution prices are computed on the estimated realisation on the names of the stars, music director and director of the film.

Films are generally made on borrowed money by independent producers who neither own a studio, nor have any security to offer for borrowed money. Interest rates of financiers are as high as 36 per cent to 60 per cent per annum.

The result is that several projects tend to remain incomplete, for lack of finances or other reasons. Of the 700 films launched in 1969, only 320 were completed and released. Of these, only 10 per cent paid a profit. Another 20 per cent broke even. The rest were flops.

Earnings : There has been a phenomenal increase in box office collections from Rs. 360 million in 1958 to about Rs. 2,200 million in 1974. Of the total box office intake 54 per cent goes to the exchequer by way of taxes and imposts. The exhibitor gets 27 per cent, the producer 15 per cent and the distributor 4 per cent. The distributor is the one who generally has the biggest financial stake in a film, next to the producer.

STRUCTURE OF THE FILM INDUSTRY

Annual output of feature films	435
Number of studios in operation	60
Number of theatres	7,800
Number of producers (approx.)	1,800
Number of distributors (approx.)	1,200
Number of persons employed in the industry	200,000
Number of laboratories	38
Number of cinemas per million population	11
Gross annual earnings	Rs. 2,250 million

FILMS PRODUCED IN INDIA (1967 to 1974)

Year	Black-and-white	Colour	Total
1967	330	45	375
1968	356	51	407
1969	295	62	357
1970	311	84	395
1971	289	128	417
1972	236	165	401
1973	278	170	448
1974	225	210	435

The number of films censored during 1974 (language-wise) is as follows: Hindi 136; Tamil 79; Telugu 69; Malayalam 54; Bengali 36; Kannada 30; Marathi 11; Gujarati 7; Punjabi 4; Tulu 2; English 1; Oriya 1; Assamese 3; Manipuri 2; Total 436.

Experimental Films : 1974 witnessed a wave of creative cinema all over the country in which techniques and content were supreme. Among the creative output of this period are : "Sonar Kalla," "Nimantran," "Strir Patra," "Jadu Bangsa," "Ek Din Surja" (in Bengali); "27 Down," "Garm Hawa," "Rajnigandha," "Ankur," and "Duvidha" (in Hindi); "Kaadu" (in Kannada); "Dikatra Parvati" in (Tamil) and "Nirmalyam" in Malayalam. They were different from the commercial cinema and struck a healthy balance between form, content and technique.

Awards: The "Bharat", "Urvashi" and "Phalke" awards have been instituted under the National Awards Scheme of the Government of India. The State Governments of Maharashtra, Gujarat, Kerala, Karnataka and Tamil Nadu have also instituted their own annual State awards for films.

Filmfare Awards: Were instituted in 1953 and the first presentation was made in 1954. These awards are given annually by the Filmfare magazine of Bennett, Coleman & Co., Ltd. Bombay, publishers of the Times of India and Allied Publications. (For list of **Award winners** see chapter on "Awards".)

Government Support : A very wide ranging, extensive base for promoting the growth and quality of Indian films has been built up since 1947. Several support and service institutions have been created towards this end as listed below.

Films Division : 24, Dr. Gopalrao Deshmukh Marg, Bombay 400026 : The Films Division of the Ministry of Information and Broadcasting produces and distributes newsreels, documentaries and other films for the information, education and instruction of the people. Till the end of 1973-74, the Films Division had produced 1,825 newsreels and 2,023 documentaries. The Division produces nearly 200 films a year in English and 14 in Indian languages.

Film Finance Corporation, "White House," 91, Walkeshwar Rd., Bombay 400006 : Set up by the Government of India to provide finance for the production of films of good quality and standard, the FFC has also undertaken a scheme for financing the production of projection equipment and aquisition of art theatres. From Nov. 1973, the Corpn. has undertaken the canalisation of export films, import and distribution of raw stock and import of feature films.

Chairman : B. K. Karanjia. *General Manager :* Nitin Sethi.

Film and Television Institute of India, Law College Rd , Pune 411004 : The Institute trains all categories of film technicians and artistes. It offers diploma courses in film direction, acting, motion picture photography, sound recording, sound engineering and film editing. Situated in Prabhatnagar, it has extensive facilities for outdoor shooting, a processing laboratory and well-equipped studios.

Television Training Centre has been shifted to Pune from New Delhi recently. It has started courses in T. V. Training since Sept. 1974.

National Film Archive of India, Law College Rd., Pune 411004. The Archive preserves the heritage of national and international cinema for study, research and reference. It has acquired a representative collection of 780 Indian and 283 foreign films, 4,779 books, 150 periodicals, 1,062 shooting scripts, 959 disc records, 2,120 wall-posters and 1,775 booklets on films. Notable among its acquisitions are several silent films made in the early days of the Indian film industry.

The Archive also channelises the diffusion of film culture in the country, by making available the films and related literature to film students and research workers, film societies for study purposes and also organises periodical short-term courses in Film Appreciation for the benefit of interested public. Archive also holds regular screenings at Pune and Bombay for invited public.

Curator : P. K. Nair.

The Archive has set up a distribution library with selected Indian and foreign film classics for the benefit of film societies, and film study groups in the country.

Children's Film Society, Hingorani House, Dr. Annie Besant Rd., Bombay 400018: Set up by the Government of India to produce, acquire, distribute and exhibit films of special interest to children and juvenile audiences, the Society draws its major funds from an annual grant-in-aid. It also earns revenue from commercial and non-commercial screening of its films, sale of prints etc. The Society arranges shows in schools, clubs, factories, colonies, etc. on an annual membership fee of Rs. 50 and hire charges of Rs. 25 per programme. The Society's films are shown by the Central and State Governments through their publicity vans in rural areas. It has so far produced over 90 films.

Chairman : A. J. Kidwai ; *Actg. Secretary :* Smt. Parvati Menon.

Central Board of Film Censors, 91, Walkeshwar Rd., Bombay 400006: A statutory body set up under the Cinematograph Act, 1952, the Board sanctions films for public exhibition.

Chairman : V. D. Vyas.

Hindusthan Photo Films Manufacturing Co., Ltd., (details in the chapter on the Government of India Undertakings).

Indian Motion Pictures Export Corporation Ltd. (IMPEC), D. Shivsagar, Dr. Annie Besant Rd., Bombay 400018: Set up in the public sector in September, 1963 with a share capital of Rs. 2·5 million, subscribed by both the film industry and the Government of India to promote exports of Indian films and find new markets abroad.

Chairman : S. K. Kooka.

EXPORT OF INDIAN FILMS

Indian films are exported to over a 100 countries in the world. The traditional markets are the U.K., the Gulf States, East Africa, North and West Africa, West Indies, Indonesia, Fiji, Afghanistan, Singapore, Thailand, Iran, Burma, U.S.A., Sri Lanka and Mauritius. The demand is mainly for Hindi films and, to some extent, Tamil feature films. In 1973-74 films worth Rs. 75 million were exported.

IMPORT OF FILMS

The Govt. of India did not renew the agreement with the Motion Pictures Export Association of America (MPEAA) when it expired on June 30, 1971. American films are now being imported through the State Trading Corporation.

FILM ASSOCIATIONS

Indian Motion Picture Producers' Association, Sandhurst Bldg., Sardar Vallabhbhai Patel Rd., Bombay 400004. Premier organisation of motion picture producers, studio owners and others, the IMPPA's main object is to safeguard their interests. All problems connected with film production and disputes arising therefrom are taken care of by IMPPA. The IMPPA also acts as the central agency for registration of film titles, procurement of raw stock, carbons and other studio requirements.

President : Ram Bohra ; *Sr. Vice-President :* Malikchand Kochar ; *Vice-President :* R. H. Wadia ; *Hon. Treasurer :* Raj Kumar Kohli ; *Secretary :* vacant.

Film Producers' Guild of India Ltd., Shantshree, S. S. Rao Rd., Bombay 400012: Established in 1954, the Guild has a membership of 90 active, regular producers. The organisation looks after all their problems as also difficulties arising out of film production. It makes representations to the Union and State Governments seeking redress of their grievances as also against levies, impositions and taxes. It also ensures regular supplies of materials required in the business of film production.

President: G. P. Sippy; *Vice-Presidents:* Subodh Mukerji, Atma Ram ; *Secretary :* R. V. Ishwar.

Cinematograph Exhibitors' Association of India, Flat No. 22/23 B, Vellard View, Tardeo Rd., Bombay 400034: Established on July 1, 1942, the CEAI is registered under the Indian Companies Act. Its main objectives are to help develop the exhibition trade in films and to co-operate with distributors and their organisations to ensure smooth exhibition of films. The organisation takes measures conducive to the interests and welfare of members, in co-ordination with various interests in the film industry. The CEAI has over 990 members on its rolls.

President : B. D. Bharucha ; *Secretary :* Vacant.

Indian Motion Picture Distributors' Association, Vijay Chambers, Opp. Dreamland Cinema, Tribhuvan Rd., Bombay 400004: The IMPDA ensures co-ordination among exhibitors, producers and distributors of motion pictures and takes care of the interests of distributors, in particular. It seeks to bring in self-regulation in the business of film distribution and fair trade practices. It has a membership of 350.

President : L. N. Nagwekar.

JUTE INDUSTRY

BRIEF HISTORY

THE Indian jute mill industry, born in 1855 at Rishra on the Hooghly, 21 kms. upstream from Calcutta, was a natural evolution of the centuries old cottage industry of Lower Bengal based on hand spinning and weaving of jute. The banks of the Hooghly offered the best facilities in the world for manufacture of jute goods. By 1885 the Indian industry, with its supremacy in the international markets firmly established, had 6,700 looms in production. Loomage shot up to 30,685 in 1909, to 50,354 in 1927 and to 65,762 in 1949. For a decade or so the industry produced the simplest constructions of sacking cloth. A new line of production—hessian—was introduced in 1870, and the product diversification continued with webbings, cotton bagging, linoleum hessian, jute carpets and rugs, carpet backing cloth, and decorative jute fabrics gradually added to the range. The industry has already modernised up to the spinning stages of manufacture. This, coupled with the improved technology and other rationalisation measures adopted by the industry, has helped it to increase production without increasing loomage. Since 1967 the mills have been producing goods rigidly to ISI standards under the Government's compulsory quality control and preshipment inspection scheme. The industry has been engaged since World War II in research and product development for an answer to the problem of substitution.

LOCATION OF THE INDUSTRY

Figures given are number of jute mill companies in operation July 31, 1974. West Bengal 54 ; Andhra Pradesh 4 ; Bihar 3 ; Madhya Pradesh 1 ; Uttar Pradesh 3 ; Assam 1 ; All India 66.

Area in hectares under raw jute cultivation : 1970–71 : 749,883·16 ; 1971—1972 : 818,600·00 ; 1972–73 : 700,000·00.

The cultivation of raw jute is concentrated in three States — West Bengal, Bihar and Assam. (For production refer to the Chapter on "Agriculture.")

Public Sector : Negligible (only a small mill in Assam has recently gone into production).

No. of Persons Employed : Over 2 million farmers are engaged in jute cultivation and about 400,000 persons are employed in jute industry and trade.

No. of Strikes & Lockouts : (1973) — 142.

No. of Man-days Lost : (1973) — 1·26 million.

Capital Investment in the Industry : about Rs. 2,400 million.

Average Annual Sales : about Rs. 5,000 million.

Ranking in the World Market : India is the largest producer of raw jute in the world, followed closely by Bangla Desh. West Bengal accounts for nearly half of India's total production. India also manufactures the biggest quantity of jute goods in the world.

PRODUCTION

Following is the production of jute goods for mills reporting to the Indian Jute Mills Association accounting for about 90 per cent of total industry (in '000 tonnes).

1970–71 : 979 ; 1971-72 : 1,138; 1972–73: 1,044 ; 1973–74 : 936.

The all-India yield per hectare in bales (1 bale = **181·43** kgs.) : 1970–71 : 6·62 ; 1971–72 : 6·97 ; 1972–73 : 7·11 ; 1973–74 : 7·80.

CONSUMPTION

Per Capita Consumption of Jute Goods : (in kg)* : India 0·72, U.K. 2·74, USA 2·83, Japan 1·30, Australia 7·24, USSR 0·36.

Distribution (Million bales)

	1971–72	1972–73	1973–74
Mills consumption ..	7·45	6·90	6·10
Exports..	0·35	0·05	0·30
Domestic consumption	0·20	0·20	0·30
Total	8·00	7·15	6·70

EXPORTS : Jute goods are the country's largest foreign exchange earner. The table in the next column gives the exports of jute and the foreign exchange earned in the last three years.

Ten Largest Mill Companies : (on the basis of loomage) are all situated in West Bengal.

Year (April–March)	Exports ('000 tonnes)	Value (Rs. in million)
1971–72	674	2,653·0
1972–73	575	2,483·7
1973–74	549	2,256·2

Export Duties : Hessian Rs. 600 per tonne ; canvas, tarpaulin and webbing Rs. 200 per tonne ; carpet backing abolished on 3-4-1975 ; sacking, and other goods Rs. 150 per tonne ; Cotton bagging, wool pack and other specialities : nil.

GENERAL

Yield per hectare : The average yield of jute in India is about 1,300 kgs. per hectare.

Loomage : The exact world loomage is not known, but rough estimate puts it at 109,275. The total number of looms in India on Jan. 1, 1973 was 42,339.† Bangladesh was last reported to have 25,240 looms.

Directorate of Jute Development (Govt. of India): MS Bldgs., Nizam Palace Campus, 234/4, Acharya J.B. Rd., Calcutta 700020.

Office of the Jute Commissioner (Govt. of India): 20, British Indian St., Calcutta 700001.

Training : The industry has provided for elaborate and scientific technical training in the spinning and weaving of jute, quality control of jute goods, and maintenance of machinery at the **Institute of Jute Technology** at 35, Ballygunge Circular Rd., Calcutta 700019, an educational centre set up and financed by the Indian Jute Mills Association within the orbit of Calcutta University.

Successful trainees eventually fill the senior supervisory positions in jute mills.

Research : The industry's needs for research and development are served by the **Indian Jute Industries, Research Association** (*IJIRA*), 17, Taratola Rd., Calcutta 700053, which takes care of (1) Basic research, (2) Applied investigations, (3) Technical service, (4) Product development, and (5) Raw jute development.

Jute Agricultural Research Institute : Nilganj, Barrackpore, West Bengal also researches into the problems of cultivation of raw jute and allied fibres.

Publications: 'Jute Bulletin', Directorate of Jute Calcutta (Monthly). 'Jute Chronicle', Indian Jute Mills Association, 6, N. Subash Rd., Calcutta 700001 (Bi-Monthly).

	Names of Mills	*Address*	*No. of Looms*
1.	New Central Jute Mills Co. Ltd.	Budge Budge, 24 Parganas	1,551
2.	National Co. Ltd.	Sankrail, Howrah	1,465
3.	Ganges Manufg. Co. Ltd.	Bansberia, Hooghly	1,297
4.	Hukumchand Jute Mills Ltd.	Hazinagar, 24 Parganas	1,288
5.	Fort Gloster Industries Ltd.	Bauriah, Howrah	1,239
6.	Anglo India Jute Mills Co. Ltd.	Kanknarrah, 24 Parganas	1,200
7.	Shree Hanuman Jute Mills.	Ghusuri, Howrah	1,160
8.	Titaghur Jute Factory Co. Ltd.	Titaghur, 24 Parganas	1,115
9.	Barnagore Jute Factory Co. Ltd.	Barnagore, Calcutta 700035	1,048
10.	Samnuggur Jute Factory Co. Ltd.	Bhadreswar, Hooghly	1,016

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* Based on internal consumption for 1969 and population as published in The Statesman Year Book : 1967-68.

† Figure is for looms actually installed. Figures of loomage quoted under "Brief History" denote the number of looms registered, indicating the number of loomshifts allowed under the working time agreement, defunct since 1964. The two sets of figures are, therefore, not directly comparable.

LAC INDUSTRY

LAC is a resinous substance secreted as a protective coating by the lac insect known in scientific terms as " kerria lacca ". It is a unique natural resin, being the only one of animal origin. The insect, about 0·5 mm. long, belonging to the family of scale insects and mealy-bugs, is a parasite which lives and thrives on the sap of certain trees, bushes, shrubs and creepers which are called the ' lac hosts '.

BRIEF HISTORY

The word *lac* or *lakh* is derived from the Sanskrit word *Laksha,* meaning a hundred thousand, believed to be the number of crimson-red insects which play their role in producing a seer of lac. In Vedic times lac was prized for its supposed medicinal properties. Classical Sanskrit literature is full of references to the use of the red lac dye for cosmetic purposes. By the time of Akbar the use of lac for preparing varnishes and lacquer for wood had been well developed. Wood turnery lacquering, ornamental enamelling of brassware, and the making of bangles out of lac have continued to the present day as handicrafts.

LOCATION OF THE INDUSTRY

The lac factories are located in the following five States with the number of units in brackets: Bihar (37), West Bengal (33), Madhya Pradesh (20), Maharashtra (7) and Uttar Pradesh (4). (Total 101 units.)

No. of Persons Employed : Bihar : 1,143, West Bengal : 2,332, Madhya Pradesh : 304, Maharashtra : 210, Uttar Pradesh : 83. (Total 4,072).

The lac industry provides side occupation and a valuable source of subsidiary income to the poor *adivasis* and backward people who employ themselves in its cultivation. The number of such cultivators is between 3 to 4 million.

PRODUCTION

The lac insect is found in most of the near and far eastern countries but is commercially exploited on a large-scale only by India and Thailand. India's share in world production of lac which was about 90 per cent before the Second World War has declined to about 50 per cent and Thailand now contributes more than one fourth of the total world supplies.

The all-India production of lac over the last three years in tonnes was as follows: 1971-72: 27,211; 1972-73: 17,039; 1973 74 : 19,258.

The final report issued by the Directorate of Lac Development, Ranchi, puts the total yield of ' Baisakhi ' lac crop in 1973-74 at 10,100 tonnes of 'Jethwi' lac at 1,380 tonnes, of 'Katki' lac at 5,024 tonnes and of 'Kusmi' lac at 2,754 tonnes.

Bihar has the highest production, 9,465 tonnes in 1973-74 followed by Madhya Pradesh 50,20 tonnes, West Bengal 1,900 tonnes and Uttar Pradesh 1,866 tonnes.

CONSUMPTION

India consumes only about 10 per cent of its annual production. The consumption in tonnes over the last three years was as follows : 1971-72 : 1,519 ; 1972-73 : 957 and 1973-74 : Not available.

EXPORTS

Very early in history, lac dye appears to have reached Greece and Rome. Regular exports to Europe began early in the 19th century for use as a substitute for the more expensive cochineal imported from Mexico. Exports were further accelerated when more uses were found for the resin, such as in the manufacture of phonograph records and French polish.

Indian lac being indisputably the best in quality is sold to over a hundred countries. Over 90 per cent of the total production is exported.

The largest buyers of Indian lac are U.S.A., U.S.S.R., and U.K.

The table below gives export of lac to important countries during the last two years.

(In tonnes)

Country	1972-73	1973-74
U.S.A.	1,034·6	518·9
U.S.S.R.	643·9	342·5
West Germany	1,321·7	709·1
U.K.	1,199·1	869·8
Japan	117·9	62·0
Australia	217·0	211·6
France	69·2	133·7
Brazil	287·8	478·4
Italy	137·2	145·4
Other Countries	2,535·1	2,136·4
Total	7,563·5	5,607·7
Total value in Rupees ..	61,852,561	143,956,092

Shellac Export Promotion Council with headquarters at 14/1B, Ezra St., Calcutta 700001, assists the exporters in their various problems and does propaganda abroad for the promotion of lac trade.

The major functions of the **Indian Lac Exporters Association,** (6, N. Subash Rd., Calcutta 700001) formed with Government support, are to assist the Government in the fixation of minimum prices of all grades, maintenance of quality and administration of the minimum export price.

IMPORTS

Imports of lac over the last three years are given below :

Year	Quantity in quintals	Value in Rupees
1971-72	85·5	159,781
1972-73	1,208·0	602,265
1973-74	N.A.	N.A.

N.A. — Not available.

GENERAL

For looking after the development and marketing of lac and also for guiding and co-ordinating lac development work in the States, a **Directorate of Lac Development** has been created under the Department of Agriculture of Government of India with headquarters at Circular Road, Ranchi 834001, Bihar with effect from 1st April, 1966. The Government of India has also constituted the **Indian Lac Development Council** on which various interests connected with lac are represented. The primary function of the Council is to advise the Government on all matters relating to development of lac cultivation, trade and industry.

The **Bihar Co-operative Lac Marketing Federation** has been formed in Bihar with the object of giving a price support to the cultivator at the time when the market price falls below certain levels. Similar organisations in other States are in the offing.

Research : To improve upon the technique of lac cultivation and to find out new uses of lac are the responsibilities of the **Indian Lac Research Institute** at Namkum, Ranchi, Bihar. This Institute is under the control of the Indian Council of Agricultural Research and provides training facilities.

Important Uses : Lac is used in the manufacture of French polish, gramophone records, electrical insulating materials, shellac moulded articles, micanite, hats, grinding wheels, adhesives, cements, wood turning, metal enamelling, printing ink etc.

Crops: There are four crops of lac named after the Hindu months in which the collection of each crop commences. These are 'Baisakhi' and 'Katki' from one strain of the insect (Rangeeni) and 'Jethwi' and 'Aghani' from another strain (Kusmi). Each Rangeeni female produces 0·03 g. of somewhat dark lac, while each Kusmi female makes about 0·07 g. of a more valuable light-coloured lac.

When the matured crop is cut, a portion is kept apart to serve as broodlac for the next crop. The rest, scraped off from the twigs, is sticklac. The first processed product after the crushing and washing of sticklac is known as 'seedlac'. Shellac is manufactured either by melting seedlac mainly in cloth bags held near a fire or by the mechanised process of extraction with suitable solvents.

Publication : 'Indian Shellac' (Quarterly), 14/1B, Ezra St., Calcutta 700001.

MAN-MADE FIBRE INDUSTRY

BRIEF HISTORY

THE Industry in India is hardly 25 years old. First unit to manufacture viscose rayon filament yarn, The Travancore Rayons Ltd., was incorporated in 1945. The actual production started in 1950.

In 1664 Robert Hooke predicted the possibility of Viscose-fibre, but the reality came into being only in 1884 when the father of rayon industry, Count Hilarie de Chadonnet, produced rayon from nitro-cellulose solution. Commercial production started in France in 1891. But the development of polymer 66 and 6 in nylon is comparatively young and was discovered in Germany in 1938.

In 1941, chemists J. R. Whinfield and J. T. Dickson discovered polyester. I.C.I. developed and produced the fibre commercially in U.K. and became an exclusive licencee for polyester fibre throughout the world except U.S. In the earlier days it was the cellulosic synthetic fibre which made the market, but in the last 20 years the more versatile non-cellulosic synthetic fibres have made tremendous head-way.

Position in India : In 1951, one unit was producing about 2,500 tonnes of rayon filament yarn in India. Today there are 9 units engaged in the manufacture of rayon and acetate filament yarn with a total capacity of 38,000 tonnes per annum. There are two units producing rayon staple fibre with a production capacity exceeding 70,000 tonnes per annum. There are also three units which produce rayon tyre cord with a total capacity of 19,000 tonnes per year. There are fifteen units which produce synthetic filament, staple and tyre cord while letters of intent have been issued to sixteen units. On the fabrics side, the production is estimated to be 1,000 million metres.

Investment & Employment : More than Rs. 2,800 million have been invested in this industry. It employs directly about 30,000 persons and provides raw material for the operation of 110,000 power looms and more than 400,000 handlooms.

LOCATION OF INDUSTRY

SYNTHETIC FIBRE UNITS IN INDIA (in million kgs.)

Name of the unit*	Year of commencement	Licensed capacity per annum	Letter of intent
Nylon filament yarn			
J.K. Synthetics Ltd., Kanpur, U.P. (Kota, Rajasthan)	1962	3·84	—
Garware Nylons Ltd., Bombay, Maharashtra (Pimpri-Pune, Maharashtra) ..	1962	2·00	1·84
Nirlon Synthetic Fibres & Chemicals Ltd., Bombay, Maharashtra, (Goregaon, Bombay-Maharashtra)	1962	2·52	1·32
Modipon Ltd., Modinagar, U.P. (Modinagar-Uttar Pradesh)	1968	2·20	2·00
Century Enka Ltd., Bombay-Maharashtra (Bhosari-Pune, Maharashtra) ..	1969	0·72	1·60
Gujarat Polyamides Ltd., Bombay, Maharashtra (Nadiad, Gujarat) ..	—	1·80	0·30
Shree Synthetics Ltd., Ujjain, Madhya Pradesh	1972	1·10	—
Stretch Fibres (India) Ltd., Bombay, Maharashtra (Nagpur-Maharashtra) ..	1973	0·54	—
Arthur Import & Export Co., Bombay, Maharashtra	—	0·80	—
Guptalon Ltd., Ludhiana, Punjab	—	1·00	—
The Industrial Development Corpn. Orissa Ltd., Bhubaneshwar, Orissa ..	—	—	2·10
Assam Industrial Development Corpn. Ltd., Shillong	—	—	2·10
M.P. Audyogik Vikas Nigam Ltd., Bhopal, Madhya Pradesh	—	—	2·10
Haryana State Industrial Development Corpn., Ltd., Chandigarh	—	—	2·10

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* Location of the factories is shown in brackets.

SYNTHETIC FIBRE UNITS IN INDIA — *Contd.* (in million kgs.)

Name of the unit*	Year of commencement	Licensed capacity per annum	Letter of intent
Mysore State Industrial Investment and Development Corpn. Ltd., Bangalore, Karnataka	—	—	2·10
Gujarat Industrial Investment Corpn. Ltd., Vadodara	—	—	2·10
The Tamil Nadu Industrial Development Corpn. Ltd., Madras	—	—	2·10
Andhra Pradesh Industrial Development Corpn. Ltd., Hyderabad	—	—	2·10
The Kerala State Industrial Development Corpn. Ltd., Trivandrum	—	—	2·10
Bihar State Industrial Development Corpn. Ltd., Patna, Barauni	—	—	2·10
Punjab State Industrial Development Corpn. Ltd., Chandigarh, Ludhiana/Amritsar	—	—	2·10
West Bengal Industrial Development Corpn. Ltd., Calcutta	—	—	2·10
The U.P. State Industrial Development Corpn. Ltd., Kanpur	—	—	2·10
Total	—	16·52	34·36
Nylon staple fibre			
J.K. Synthetics Ltd., Kanpur, U.P. (Kota, Rajasthan)	1971	1·35	—
Arthur Import & Export, Bombay, Maharashtra	—	0·30	—
Total	—	1·05	—
Nylon tyre cord			
J.K. Synthetics Ltd., Kanpur, U.P. (Kota, Rajasthan)	1968	1·00	—
Nirlon Synthetic Fibres & Chemicals Ltd., Bombay Maharashtra (Goregaon, Bombay, Maharashtra)	1971	1·42	—
Shriram Fibres Ltd., New Delhi, (Madras-Tamil Nadu)	—	2·00	—
National Rayon Corpn. Ltd., Bombay Maharashtra (Kalyan, Maharashtra)	—	2·20	—
Total	—	6·62	—
Acrylic staple fibre			
J.K. Synthetics Ltd., Kanpur, U.P. (Kota, Rajasthan)	1968	4·00	—
Indian Petro-chemical Corpn. Ltd., Vadodara, (Gujarat)	—	—	12·00
Total	—	4·00	12·00
Polyester staple fibre			
Chemicals & Fibres of India Ltd., Bombay, Maharashtra (Thana, Maharashtra)	1965	6·10	—
The Ahmedabad Manufacturing & Calico Printing Co. Ltd., Ahmedabad, Gujarat	—	6·10	—
Swadeshi Polytex Ltd., Ghaziabad, (Kavinagar, Ghaziabad, Uttar Pradesh)	1973	6·10	—
Indian Organic Chemicals Co. Ltd., Bombay, Maharashtra (Manali, Tamil Nadu)	1973	6·10	—
J.K. Synthetics Ltd., Kanpur, U.P. (Kota, Rajasthan)	1972	0·45	—
Punjab State Industrial Development Corpn. Ltd., Chandigarh, Amritsar	—	—	6·00
Total	—	24·85	6·00
Polyester filament yarn			
Nirlon Synthetic Fibres & Chemicals Ltd., Bombay, Maharashtra, (Goregaon, Bombay, Maharashtra)	1967	0·36	—
J.K. Synthetics Ltd., Kanpur, U.P. (Kota, Rajasthan)	1967	0·36	—
Garware Nylon Ltd., Bombay, Maharashtra (Pimpri-Pune-Maharashtra)	1973	0·36	—
Modipon Ltd., Modinagar, U.P. (Modinagar, U.P.)	1973	0·36	—
Total	—	1·44	—
Polypropylene staple fibre			
Neomer Ltd., Vadodara, (Gujarat)	—	—	6·00
Total	—	—	6·00
Total for synthetic fibres	—	55·08	58·36

* Location of the factories is shown in brackets.

Rayon Units in India

Sirsilk Ltd., Sirpur, Kagaznagar, Andhra Pradesh; The Baroda Rayon Corpn. Ltd., Udhna, Surat Dist., Gujarat; The Indian Rayon Corpn. Ltd., Veraval Rd., Junagadh, Gujarat; Travancore Rayons, Rayanpuram, Kerala; Gwalior Rayon Silk Manufg. (Wvg.) Co., Ltd., Birlagram, Nagda, Madhya Pradesh; Century Rayons, Murbad Rd., Shahad, Kalyan, Thana Dist., Maharashtra; Gujarat Nylons Pvt. Ltd., Pimpri, Pune-411018; Nylon Synthetic Fibre and Chemicals Ltd., Pahadi, Goregaon, Bombay-400062, Maharashtra; Shriram Rayons, Shrirampur, Industrial Area, Kota, Rajasthan; South India Viscose Ltd., Sirmugai, Mettupalayam, Tamil Nadu; J. K. Rayons, Jaykaypur, Kanpur, Uttar Pradesh; Kesoram Rayons, Trebeni, Hooghly Dist., West Bengal.

PRODUCTION : Polyester staple fibre production fell from 10,500 tonnes in 1973 to 7,000 tonnes in 1974. During 1974 the capacity utilisation was 30 per cent.

The five units manufacturing polyester staple fibre — CAFI, Calico, Swadeshi Polytex, Indian Organic and J.K. Synthetics — have a total installed capacity of 24,000 tonnes a year.

In 1973 the fall in production was attributed to a shortage of DMT. In 1974 the IPCL stepped up production of DMT by utilising 75 per cent of its capacity of 24,000 tonnes a year.

The cut-back in production is, therefore, attributed to industry's desire to maintain the ex-factory selling price of polyester staple fibre at Rs. 35 a kg.

Production Targets for Man-made Fibres : The overall production of synthetic fibres may go up from 45,000 to 50,000 tonnes per annum by 1974. Planned estimate for total production of cellulosic and synthetic yarn for 1973–74 is 217,000 tonnes. The break up of 1973–74 estimate is as follows: Rayon filament 64,000 tonnes; Rayon staple 90,000 tonnes; Nylon filament rayon and other industrial yarn 29,000 tonnes; Polyester filament and staple 22,000 tonnes; Acrylic fibre 12,000 tonnes; and man-made fabrics 1,500 million mts.

Per Capita World Consumption of man-made fibre in 1969 (the latest available) was as under (figures in kg.): U.S.A. 11·4; Netherlands 10·7; Canada 8·8; U.K. 7·5; Germany 9·1; Sweden 9·3; Denmark 7·3; Japan 6·3; France 5·6; South Africa 4·1; Spain 3·7; Italy 4·0 and India 0·2. Per capita world consumption of man-mades has risen from 0·8 kg. in 1951 to 3·2 kgs. in 1971.

Production of Man-made Fibres (India V/s World)

(million kgs.)

Year	India Man-made Fibres Qty.	India Man-made Fibres %	World Man-made Fibres Qty.	World Man-made Fibres %
1965	75·1	7·1	5,400	29
1971	116·6	11·4	9,337	41

IMPORTS

INDIGENOUS PRODUCTION AND IMPORTS OF MAN-MADE FIBRES IN INDIA

(Quantity in '000 kgs.)

Year	Particulars	YARN: Cellulosic Yarn: Viscose Filament Yarn	Acetate Filament Yarn	Cuprammonium Rayon Yarn	Non-Cellulosic Yarn: Other Filament Yarn including Nylon, Acrylic, Polyester, Polypropylene, P.V.C. and P.V.A. Filament Yarn etc.
1968	Production	36,038	1,471	—	5,334 (N)
	Imports	1	—	60	3,089
	Availability	36,039	1,471	60	8,423
1971	Production	36,848	1,622	—	11,363
	Imports	—	—	—	5,150
	Availability	36,848	1,622	—	16,513

INDIGENOUS PRODUCTION AND IMPORTS OF MAN-MADE FIBRES IN INDIA

(Quantity in '000 kgs.)

STAPLE: Cellulosic: Viscose Acetate Staple Fibre	Non-Cellulosic: Nylon Staple Fibre	Polyester Staple Fibre	Acrylic, Polypropylene, P.V.A., P.V.C. etc.	TOTAL (Yarn + Staple)	Per capita availability of all Man-Made Fibres (in kgs.)
62,087 (V + A)	—	4,697	—	109,627	
—	168	476	722	4,516	
62,087	168	5,173	722	114,143	0·22
58,640 (V + A)	—	5,738	—	110.646	
61.068	—	5,729	—	116.630	
10,193	144	3,821	2,741	22.049	
71,261	144	9,550	2.741	138.679	0·25

Note : N = Nylon, V = Viscose, A = Acetate, P = Polyester.

EXPORTS

During 1973-74 a 300 per cent rise in the exports of rayon and synthetic textiles was recorded. The estimated aggregate exports amounted to Rs. 320 million against Rs. 111 million in 1972-73.

Item-wise break up of export performance was as follows: Fibres Rs. 268·80 million; garments & made-ups Rs. 9 million; hosery and knitwear Rs. 1·0 million; Rayon tyre yarn/cord Rs. 9·20 million; other miscellaneous items Rs. 32 million.

Export Promotion Council: The Silk and Rayon Textiles Export Promotion Council (Resham Bhavan, 78, Vir Nariman Road, Bombay 400020) is playing a key role in encouraging the industry to adapt its production pattern to suit the requirements of export markets. The research and development bill of the Council is devoted specifically to this cause.

RAW MATERIALS : The industry has been experiencing acute shortage of caprolactum. The State Trading Corporation had failed to make long term arrangements with foreign manufacturers for this raw material. Now that there is a world-wide shortage of caprolactum its availability is going to be erratic and costly.

The 20,000 tonne caprolactum plant of the **Gujarat State Fertiliser Corporation** was commissioned in December, 1973 and the 24,000 tonne DMT plant of the **Indian Petrochemical Corporation Ltd.,** in April, 1973 (See Petrochemical Industry).

GENERAL

Fifth Plan : The annual demand estimated for the man-made fibre industry made by the Association of Man-made Fibre Industry is 295 million kgs. of cellulosics and 115 million kgs. of synthetics, while the Association of Synthetic Fibre Industry places it at 172 million kgs. of cellulosics and 182 million kgs. of synthetic by the end of the Fifth Plan.

A group of Synthetic Fibre industry has submitted a science and technology plan (for the development of the man-made fibre industry in India) to the Government, with an outlay of Rs. 375 millions in the Fifth Plan. This would ensure direct employment of about 200 scientists and technologists.

Research and Training : *The Silk and Art Silk Mills' Research Association* (SASMIRA), Dr. Annie Besant Rd., Worli, Bombay 400025, conducts research and offers training facilities for various diploma courses to students who have passed the matriculation standard.

MISCELLANEOUS MANUFACTURES

FOLLOWING table gives installed capacity, production etc. of various items manufactured in India during 1973-74.

Industry	Accounting units	Installed capacity	Production	Production as % of capacity
Aluminium wire rods*	tonnes	46,400	30,000	64·5
Aluminium conductors	'000 tonnes	97·8	47·6	48·7
Agricultural tractors	'000 Nos.	48·0	29·1	60·6
Air conditioners — Portable	,,	44·8	27·9	62·3
ACSR/AAC conductors*	tonnes	109,625	26,000	23·7
Bicycles*	lakh Nos.	40·2	27·0	67·2
Bare copper conductors*	tonnes	14,200	1,400	9·9
Ball bearings	'000 Nos.	34,300	24,391	71·1
Bright Bars	'000 tonnes	82·5	63·0	76·4
Boilers	Rs. million	138·5	691·0	498·9
Commercial vehicles	'000 Nos.	70·0	42·5	60·7
Conveying equipment	Rs. million	n.a.	115·5	
Chrome tanned hides	'000 Nos.	2,486	2,443	98·3
Clocks*	'000 Nos.	206	150	72·8
Crockery*	tonnes	29,340	17,500	59·6
Cinema arc carbons*	million pairs	15·0	7·2	48·0
Carbon blocks*	tonnes	80	62	77·5
Conduit pipes	'000 meters	2,006	752·5	37·5
Cranes (other than mobile crawler and truck mounted)	tonnes	45·7	13·0	28·4
Dry cells	million Nos.	1,281·0	625·6	48·8
Diesel engines — stationery	'000 Nos.	85·0	137·2	161·4
Diesel engines — vehicular	'000 Nos.	6·0	2·6	43·3
Discus	million Nos.	648	900	138·9
Domestic refrigerators	'000 Nos.	175·8	102·0	58·0
Drilling equipment	Rs. million	n.a.	40·5	
Electric lamps	million Nos.	128·7	133·2	103·5
Electric fans	'000 Nos.	2,750	2,294	83·4
Electric motors	'000 H.P.	3,162	2,908	92·0

Note : * Data relates to 1974. n.a. = not available.

Industry	Accounting units	Installed capacity	Production	Production as % of capacity
Electrode paste	tonnes	35,000	7,600	21·7
Enamelled winding wire	,,	20,800	13,000	62·5
Fluorescent tubes	'000 Nos.	19,570	12,087	61·8
Face cream/snow*	tonnes	1,133	825	72·8
Face powder*	,,	n.a.	87	
Fibre board*	,,	40,500	25,600	62·3
Flash light*	lakh Nos.	120·8	63·1	52·2
GLS lamps*	,,	1,662	1,400	84·2
Graphite electrode & Anodes*	tonnes	10,850	7,230	66·6
Glazed tiles*	,,	32,884	30,800	93·7
Glue*	million tonnes	2,820	2,334	82·8
Hurricane lanterns	'000 Nos.	3,120	2,350	75·3
House service metres	,,	1,627	1,053	64·7
Hoses*	million metres	9·63	4·12	42·8
H. T. Insulators*	tonnes	21,510	17,850	83·0
Industrial air-conditioning & refrigeration equipment*	Rs. million	272	136	50·0
Industrial cooling towers	,,	370	225	60·8
Leather Belting	'000 kgs.	210	62	29·5
L. T. Insulators	tonnes	21,510	17,850	83·0
Lifts	Nos.	1,380	560	40·6
Machine screws	million Nos.	475	489	102·9
Machine tools	Rs. million	960·0	667·5	69·5
Motor cycles & scooters	'000 Nos.	167·3	124·5	74·4
Midget electrodes	million Nos.	325	280	86·2
Myrobalam extracts	tonnes	7,704	1,284	16·7
Moulding power	,,	n.a.	60,342	
Matches*	million boxes	4,287	4,410	102·9
Paper covered winding wires*	tonnes	16,090	5,000	31·1
Plywood	million sq. mtrs.	43,344	33,500	77·3
Passenger cars	'000 Nos.	47·4	36·7	77·4
Power tillers	,,	36·0	2·0	5·6
Power driven pumps	,,	4,560	1,413	31·0
PVC Power cables	kms.	13,709	14,000	102·1
Radio receivers	'000 Nos	n.a.	1,776	—
Road rollers	Nos.	4,560	1,413	31·0
Railway wagons	,,	n.a.	10,100	
Refractories	'000 tonnes	1,403	800	57·0
Razor blades	million Nos.	2,530	860	34·0
Room airconditioners*	'000 Nos.	42·8	30·5	71·3
Storage batteries*	,,	1,823	1,315	72·1
Sewing machines*	,,	534	325	60·9
Sewing needle*	million Nos.	3·97	3·50	33·0
Typewriters	'000 Nos.	86·4	47·0	54·9
Tractors	,,	60·0	24·4	40·7
Tooth paste*	tonnes	4,258	7,150	167·9
Tooth powder*	,,	1,059	1,260	119·0
Talcum powder*	,,	6,428	7,260	112·9
Vacuum flasks*	million pieces	4·5	5·7	126·7
Wrist watches*	'000 Nos.	1,170	650	55·6
Wood screws	million Nos.	1,120	1,173	104·7

Note : * Data relates to 1974. n.a. = not available.

OIL-SEEDS AND VANASPATI

OILS and fats play an important role in India's economy. Next to foodgrains, 105 million tonnes valued at Rs. 96,820 million, oilseeds with a current production of 12 million tonnes valued at Rs. 22,000 million is the second largest argicultural crop in quantity and value.

Employment : In 1974 oilseeds were cultivated on 18 million hectares and provided employment to 14 million persons. In addition 0·5 million were employed in milling and processing units.

Exports : Although India ceased to be a net exporter of oils since 1963-64, it continues to export oilcakes. (See end of Chapter for latest export figures.)

The future potential for export is believed to be very good. It is estimated the oilcake needs of western Europe will increase from 19 million tonnes in 1974 to 42 million tonnes in 1989, the end of the Seventh Plan. There is also an increasing need in East European countries.

Demand & Supply : The area under 5 major oilseeds — groundnut, castor, linseed, sesame and rape/mustard — increased from 13·1 million hectares in 1958-59 to 15·3 million hectares in 1962-63 and has remained stagnant at that level ever since.

In the Third Plan the target set for major oilseeds was 10 million tonnes whilst actual production was just 6·4 million tonnes.

The Fourth Plan target was set at 10·5 million tonnes.

Over the same period demand for oils and fats has increased by 1·4 million tonnes due to increasing income and growing population.

The estimated net gap between demand and supply during 1973-74 was 0·7 million tonnes.

During 1972-73 the shortfall between demand and supply was 1·1 million tonnes.

Imports : To partially cover the gap between demand and supply the government has had to regularly import between 0·15 to 0·2 million tonnes of tallow and soyabean oil every year.

At 1972-73 prices the amount paid for imports of these two commodities over the last 10 years ending 1973-74 was estimated at Rs. 3,000 million.

Consumption : Per capita consumption of edible oils has declined from 3·4 kgs. per year in 1958-59 to 2·6 kgs. per annum in 1972-73.

According to the Indian Council of Medical Research the per capita nutritional requirement is 20 kgs. per annum.

Projected Demands : Presuming that the growth rate of income will be maintained at the present level of 5·5 per cent and that the population in 1989 will be 750 million the demand for oils and fats at the end of the Seventh Plan will be 7·2 million tonnes.

This is an increase of 3·9 million tonnes over the demand in 1973-74. Together with the current shortfall of 0·7 million tonnes the deficit will add up to 4·6 million tonnes if supplies remain static at current levels and there are no imports.

The supply figure for the past 15 years indicate a growth rate of only 2 per cent in the supply of local oils. At this rate of growth the supplies in 1989 will increase by 0·9 million tonnes.

Following are some of the encouraging developments that have taken place :

(a) Use of Cottonseed Oil in Vanaspati : Since 1972 more cottonseed oil is being used in the manufacture of Vanaspati. It has increased from 4 per cent in 1959 to 21 per cent in 1972 accounting for 127,000 tonnes. The increased use of cottonseed oil has resulted in the saving of Rs. 270 million in foreign exchange

(b) Non-edible oils for soaps : In 1959 as much as 75 per cent edible oils were used in the manufacture of soap. By 1972 the use of edible oils had dropped to 25 per cent. Efforts have been stepped up to find indigenous sources of non-edible oilseeds. This has not only generated employment in rural India but has saved Rs. 200 million in foreign exchange which would have been spent on the import of 60,000 tonnes per annum of tallow or edible oils.

(c) Groundnut & Sunflower cultivation : The Vanaspati Manufacturers' Association of India (Harilila House, Mint Rd., Bombay 400001), have conducted extension programmes in 14 states covering 25,000 hectares of groundnut plantations. It has been demonstrated that with improved selection of seeds, better water management, soil analysis and treatment and plant protection the yield of groundnut can be increased 40 per cent.

(d) Synthetic Detergents : The use of synthetic detergents in place of soap for washing fabrics is being promoted. Manufacture of detergents do not require scarce oils.

Production of Oils : Oil supplies can be improved by increased production of oilseeds.

Groundnut Oil : If the improvement of 40 per cent in yield of groundnut can be repeated over the whole acreage in the country it could yield 0·4 million tonnes of additional groundnut oil per annum.

Rice Bran Oil : India produces 44 million tonnes of rice. If all the bran, which constitutes 6 per cent of the weight of the grains, were recovered by solvent extraction the country could produce 0·4 million tonnes of rice bran oil instead of the present 60,000 tonnes.

However, the major impediment is the method used for polishing rice. By polishing rice in a huller the husk and bran gets mixed reducing the oil content to a mere 3 per cent instead of 15 per cent in bran alone. The existing method of polishing rice is depriving the country of 180,000 tonnes of rice bran oil every year, besides the loss of 0·3 million tonnes of rice which is rendered unfit for human consumption by the use of hullers.

The use of more scientific methods of polishing rice could also result in the production of 1·1 million tonnes of rice bran extractions which have an export market worth Rs. 220 million per annum.

Cottonseed Oil : While the production of cottonseed oil has increased to about 180,000 tonnes in 1973, the scope for further increase is substantial.

On the basis of 6·5 million bales of cotton production, the output of cottonseed will be 2·3 million tonnes. With a recovery of 15 per cent oil from the seed the potential oil production should be 0·3 million tonnes or 120,000 tonnes more than the current production.

There is urgent need to discourage the use of cottonseed for directly feeding cattle. For balanced animal nutrition the 18 per cent oil content is too high. All that the cattle need is 1 per cent which is available in the cottonseed meal after recovery of oil through solvent extraction.

Castor Oil : The production of caster oil has increased from 43,000 tonnes in 1959 to 60,000 tonnes in 1973.

Inedible Castor Oil has two significant potentials :

(1) With suitable processing castor oil can be used in the manufacture of soaps to the extent of over 25 per cent thereby relieving to that extent the pressure on other edible oils.

(2) Castor Oil has great export potential as it is used for conversion and in the lubricant industry. India and Brazil are the only major sources of castor oil in the free

world. If India can export the oil based chemical equivalent to 20,000 tonnes of castor oil, instead of exporting crude castor oil, the additional foreign exchange earnings would be about Rs. 30 million.

Oil Palm : Grown under expert guidance and suitable conditions oil palm can give higher output of oil per hectare than any other oil seed crop. For instance, whilst groundnut gives 200 kg. of oil per hectare in India and 600 kgs per hectare in most efficient countries, and sunflower gives 360 kgs. of oil per hectare, oil palm gives 1,800 kgs. of oil per hectare in plantations in Malaysia. Conditions suitable for oil palm cultivation exist in Andaman, Nicobar and Kerala.

Sunflower Oil : With proper techniques of cultivation, yields up to 2 tonnes per hectare can be obtained. The estimated average yield from rain-fed (non-irrigated) areas is 800 kgs. per hectare. Since the oil content ranges between 45 to 50 per cent the oil yield per hectare could be higher than other oilseed crops. This is a short-duration crop maturing in 90 to 100 days which could be introduced as a cash crop in multiple cropping patterns. Climatic conditions in the southern states are most favourable for this crop.

Oilcake Exports : India's exports in oilseed, cake meal and other vegetable oil residue had increased both in value and quantity. The export earnings from these products went up to Rs. 1,706 million in 1973-74 as against Rs. 747·70 million in 1972-73. The quantitative rise was from 1·0 million tonnes to 1·22 million tonnes.

During 1973-74, solvent extracted groundnut oil cake earned Rs. 1,211·8 million (795,829 tonnes) against Rs. 585·2 million (735,275 tonnes) during 1972-73. Japan at Rs. 261·50 million constituted the largest buyer during 1973-74 followed by United Kingdom at Rs. 125·40 million, Netherlands Rs. 115·40 million, Poland Rs. 109·30 million and Italy Rs. 100·60 million. USSR, Yugoslavia, Hungary, Federal Republic of Germany, Czechoslovakia, German Democratic Republic, France and Spain were other significant markets. Besides this leading item, solvent extracted cotton seed oilcake (decorticated) secured Rs. 261·70 million (824,774 tonnes), against Rs. 111·90 million (152,447 tonnes). Over 20 countries bought this variety. U.K. again topped the list of buyers at Rs. 35·70 million closely followed by Czechoslovakia at Rs. 35·20 million, Netherlands Rs. 41·70 million, Italy Rs. 26·10 million, Poland at Rs. 24·00 million, German Democratic Republic Rs. 19·90 million, Denmark Rs. 16·80 million, Spain Rs. 15·30 million, Federal Republic of Germany Rs. 14·80 million and Hungary Rs. 12·00 million. Solvent extracted linseed oilcake which was the third best item active in exports earned Rs. 90 million (72,359 tonnes) against Rs. 20·30 million (22,616 tonnes). Netherlands was the principal market for this item, having absorbed worth Rs. 31·30 million, followed by Poland at Rs. 25·70 million and Federal Republic of Germany at Rs. 11·40 million.

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PAPER INDUSTRY

BRIEF HISTORY

THE word paper comes from Papyrus a reed growing on the banks of River Nile in Egypt, yet the art of paper making is popularly known to have been invented by the Chinese as early as the third or second century before the Christian era. In India the tradition of making paper by hand can be traced only to the 8th Century A.D. Paper making was considered to be one of the premier domestic cottage industries before the commencement of the British rule. In India the first paper factory was started in Bengal in the latter half of the 18th century by a Christian missionary. The hundred years that followed never saw the laying of a firm foundation for the industry. It was only in 1867 that a real beginning was made when a modern paper mill was established at Bali in Bengal.

LOCATION OF THE INDUSTRY : There are 59 paper and paper board units in the private sector. The Statewise breakup is as follows :

Andhra Pradesh 2, Bihar 2, Gujarat 7, Haryana 4, Karnataka 5, Kerala 2, Madhya Pradesh 4, Maharashtra 13, Orissa 3, Tamil Nadu 3, Uttar Pradesh 3 and West Bengal 11.

There are three rayon grade pulp units all in the private sector situated each in Karnataka, Kerala and Tamil Nadu. One paper grade pulp factory is situated in Gujarat.

Public Sector : National Newsprint and Paper Mills Ltd., at Nepanagar, Madhya Pradesh is the only unit that produces newsprint in the country and is able to meet only 20 per cent of the demand.

Security Paper Mill at Hoshangabad, 45 miles from Bhopal, Madhya Pradesh, set up in 1968 in collaboration with a British firm manufactures annually 28,000 tonnes of special quality paper for currency and bank notes.

No. of Persons Employed : About 65,000.

Ranking in the World Market : India ranks 20th among the paper producing countries in the world.

Production : (1972 figures): Paper & Paper Boards —59 units, 924,000 tonnes capacity, 313,338 tonnes production; Newsprint — 1 unit, 75,000 tonnes capacity, 42,048 tonnes production ; Rayon Grade Pulp — 3 units, 123,000 tonnes capacity, 72,776 tonnes production ; Paper Grade Pulp — 1 unit, 22,500 tonnes capacity, 21,591 tonnes production.

There are also 44 pulp and paper mills in the small scale sector producing about 700,000 tonnes annually.

Per capita Consumption : (in kgs.) U.S.A. — 227·25 ; Canada — 140·62 ; Japan — 73·48 ; Australia — 56·24 ; India — 1·58.

By-Products : There are 30 units manufacturing straw and mill boards, 7 manufacturing carbon paper, 3 manufacturing duplicating stencils, one unit manufacturing cardiograph paper, and one new unit manufacturing speciality papers such as tissue, foil lining, airmail etc.

DEMAND BY 1975 : The demand projection for all types of pulp by 1975 in India is about 2 million tonnes. This is based on the presumption that the population of the country will constantly show a rise of 2·4 per cent annually for the period 1965-75 reaching 625 million at the end of the decade.

By 1975 the demand for newsprint is expected to be 312,500 tonnes ; industrial papers — 543,750 tonnes ; and, writing and printing paper — 1,018,750 tonnes.

Crash Programme: The position of additional approved capacity in paper industry in 1974-75 may be summarised as follows :

	No.	Capacity (tonnes Yr.)
Schemes covered by industrial licences (new units)	7	118,760
Schemes covered by industrial licences (substantial expansion) ..	23	142,450
Schemes covered by letters of intent (new units)	55	1,229,010
Schemes covered by letters of intent (substantial expansions) ..	13	209,600
Registered cases	19	60,780
Total		1,760,600

The following units are expected to complete their schemes during 1974-75 and 1975-76 :

Name of unit	Capacity (tonnes year)	
Ashok Paper Mills Assam ..	27,000	
— do. — Bihar ..	13,000	
Laxmi Board	22,500	
Central Pulp Mills	17,500	(part completion up to 7,000 tonnes only)
Star Paper Mills	6,000	
Titaghur Paper Mills	6,500	
West Coast Paper Mills	15,000	
Andhra Pradesh Paper Mills ..	15,000	

It was expected that an additional production of at least 30,000 tonnes would be added by these units during 1974-75.

Hindustan Paper Corporation Ltd. (Registered Office: B-20, Greater Kailash-1, New Delhi-110048) was established in June 1970. The Central Government had provided Rs. 346·70 million during 1974-75 for schemes to tide over the paper shortage.

The plant in Nagaland with 30,000 tonnes per year capacity is scheduled to go into production in early 1976. Other approved projects were a newsprint plant in Kerala with 80,000 tonnes a year capacity and the taking over and expansion of Mandya National Paper Mills from 30 to 200 tonnes a day.

Newsprint Import: During 1974-75 an estimated 245,000 tonnes were imported to meet the country's current needs of 350,000 tonnes. The import bill amounted to Rs. 205 million. The government had imposed a 30 per cent cut in the quota of newsprint users, which was subsequently reduced to 23 per cent. 15 per cent of this cut is restored in the current newsprint licensing policy for April 1975–March 1976.

Newsprint Production : The NEPA plant had undertaken to supply 47,000 tonnes of newsprint during 1974-75. The Government is considering a proposal to expand NEPA's annual capacity to 75,000 tonnes.

During 1974-75 the Government had also approved six schemes for the manufacture of newsprint. They were : 1. Ballarpur Paper and Straw Board Mills Limited, New Delhi (location : Himachal Pradesh, capacity 60,000 tonnes) ; 2. Suraj Industrial Packing Limited, Lucknow (60,000 tonnes) ; 3. Hindustan Paper Corporation, New Delhi (Kerala, 80,000 tonnes) ; 4. West Bengal Industrial Development Corporation, Calcutta (200 tonnes per day) ; Ramganga Pulp and Paper Mills Limited, New Delhi (Uttar Pradesh : 30,000 tonnes) ; and 6. Hargolal and Sons, Ambala Cantonment (30,000 tonnes).

GENERAL

Hand-made paper : There are 314 units producing hand-made paper. There are 3,407 full-time workers, 558 part-timers and 149 casual hands in this industry. The output of hand-made paper in 1970-71 was 3,071 tonnes.

Paper Mill Plant : The planned development of the paper and pulp industry is dependent upon the indigenous manufacture of paper making machinery. Four such units are producing all the machinery required in the country, with an import content of 50 to 60 per cent. Besides these there are several other units categorised as ancillaries making only certain parts of the machinery.

Training : Paper technology is taught at (1) Birla Institute of Technology and Science, Pilani, Rajasthan (Degree); (2) Forest Research Institute, Dehra Dun, Uttar Pradesh (Diploma) ; (3) Institute of Paper Technology, Saharanpur, Uttar Pradesh (Diploma and Certificate).

Research : Forest Research Institute, Dehra Dun, Uttar Pradesh is the only well-equipped research body. However, many large mills conduct research for their own requirements.

Some Large Units*:

Andhra Pradesh : Sirpur Paper Mills Ltd., Sirpur-Kaghaznagar 40,000 ; Andhra Pradesh Pulp & Paper Mills Ltd., Rajamundry 45,000 ; *Bihar :* Rohtas Industries Ltd., Dalmianagar 60,000 ; *Haryana :* Ballarpur Paper & Straw Board Mills Ltd., 124, Janpath, New Delhi 110001 (Yamunanagar), 46,000 ; *Madhya Pradesh :* Orient Paper Mills Ltd., 15, India Exchange Place, Calcutta 700001 (Amlai, Sahdol), 75,000 ; *Maharashtra :* Ballarpur Paper & Straw Board Mills Ltd., 124, Janpath, New Delhi 110001 (Ballarpur), 69,000 ; *Karnataka :* West Coast Paper Mills Ltd., Shreenivas House, Waudby Road, Bombay 400001 (Dandeli), 45,000 ; *Orissa :* Orient Paper Mills Ltd., Brajrajnagar, Sambalpur Dist., (Brajrajnagar), 70,000 ; *Tamil Nadu :* Seshasayee Paper & Board Ltd., P.O. Cauvery, Salem Dist. (Pallipalayam, Erode), 35,000 ; *Uttar Pradesh :* Star Paper Mills Ltd., Bajoria Palace, 27, Brabourne Road, Calcutta 700001 (Saharanpur), 39,200 ; *West Bengal :* Bengal Paper Mills Ltd., 14, N. Subhas Road, Calcutta 700001 (Raniganj), 50,000 ; Titaghur Paper Mills Co., Ltd., Chartered Bank Bldgs., Calcutta 700001 (1) Titaghur (2) Kakinada, 65,000.

Pulp : 1. *Rayon Grade :* Gwalior Rayon Silk Manufg. Co. Ltd., P.B. No. 37, Kozhikode, Kerala (Mavoor), 60,000 ; South India Viscose Ltd., Race Course, Coimbatore 641018 Tamil Nadu (Coimbatore), 22,500 ; Harihar Polyfibres Ltd. Harihar, Karnataka (Harihar), 36,000 ;

2. *Paper Grade Pulp ;* Central Pulp Mills, 1183, Shivaji Nagar, Ferguson College Road, Pune 411005, Maharashtra (Songadh, Gujarat), 22,500.

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* Location of the factory is indicated in brackets and figure following shows the capacity in tonnes per year.

PETRO-CHEMICAL INDUSTRY

PETRO-CHEMICALS are essentially the chemical compounds derived from petroleum sources. The common techniques employed in petro-chemicals manufacture are the thermal and catalytic cracking, oxidation, hydrogenation, isomerisation and other related processes. Apart from these, the manufacture of petro-chemicals involves the application of a number of continuous physical operations, such as distillation, extraction, crystallisation, etc.

As a result of rapid developments in the field of petrochemicals, a network of industries, such as plastics, synthetic rubber, dyestuffs, intermediates, fertilisers, synthetic fibres, synthetic detergents, etc. have come into existence and have undergone an enormous expansion in almost all industrial countries of the world.

RAW MATERIALS : The raw materials constituting the source for chemicals from petroleum may be divided into three categories : (*i*) gaseous, (*ii*) liquid and (*iii*) solid. Following are some of the important raw materials :

Natural gas : Natural gas is composed mainly of methane, ethane, propane, butane, pentane, hexane and higher hydrocarbons. The quantities of pentane and hexane determine what is known as wetness of the gas. Natural gas is found either associated with crude oil or non-associated. The non-associated gas contains little of the pentanes and above hydrocarbons and as such it is called dry gas. Besides the hydrocarbons, natural gas may contain a certain amount of nitrogen, hydrogen sulphide, carbon-dioxide and helium.

Derivatives : Natural gases provide a basis for the manufacture of lower aliphatic petro-chemicals and ammonia, methanol and their end-products and also carbon black.

Sources : Gaseous sources are found in Naharkatiya and Moran oil fields in Assam and Ankleshwar, Kalol and Cambay oil fields in Gujarat. Whilst the gases in the Ankleshwar and Kalol oil fields are wet with a high percentage of carbons the Cambay gas is dry constituting mainly of methane, ethane and small quantities of propane and butanes. The Gujarat gas is likely to be used for the manufacture of ammonia to feed the industry.

Refinery gas : This is the gas produced at various stages in the refinery operations mainly from the straight distillation units and the thermal and catalytic cracking and reforming processes. The cracked gases are generally very rich in olefins and are polymerised to get high octane gasoline where required. They are also a very useful source of petro-chemicals. The distillation gases are generally mostly paraffins and are normally used as fuels in the refinery itself. The refinery gases being rich in butane and propane, have found extensive use as domestic and industrial fuel in liquified form.

Naptha : The most popular amongst the petrochemical raw materials is liquid naphtha.

The international oil crises has had a decisive impact on the feedstocks for the petro-chemical industry. In India the petro-chemical and fertiliser industries have been planned on the basis of increasing availability of naphtha with the increasing demand for petroleum products. Till the sixties this valuable petroleum product was exported. Its utility as a feedstock for the production of organic chemical and plastics was appreciated in the mid-sixties.

Production & Demand : In 1971 the demand for naphtha was around 1·02 million tonnes against a production of 1·181 million tonnes resulting in the export of 0·15 million tonnes. In 1972 the production and demand had almost levelled off with just a marginal export of 30,000 tonnes of naphtha. In 1973 the demand was almost 1·75 million tonnes against a production of about 1·5 million tonnes, requiring an import of 0·25 million tonnes. If the programmed production of fertiliser and petro-chemicals continues the demand for naphtha by 1976 will be 3·5 million tonnes and by 1978-79 about 4·265 million tonnes.

Uses of Naphtha : Nitrogenous fertiliser is a rapidly growing item in underdeveloped countries. Naphtha reforming yields hydrogen, which is required for the synthesis of ammonia, a basic material in fertiliser production. To produce one tonne of ammonia less than a tonne of naphtha is required.

Olefins are the base for the bulk of petro-chemicals produced. Ethylene is the most important followed by propylene and butane. The cracking of naphtha to produce olefins is a major commercial process. Naphtha crackers are generally so designed as to give variable ratios of olefins according to market requirements of their end products.

Production of aromatics (e.g. benzene, toluene, xylenes, etc.) from naphtha by reforming is another major use of naphtha. Aromatics are used for the production of synthetic fibres, high quality gasoline, etc.

New Naphtha-based industries : Existing four units are at Trombay in Maharashtra, Gorakhpur in Uttar Pradesh, Kota in Rajasthan and Madras in Tamil Nadu. Three fertiliser plants at Goa, Cochin in Kerala and Durgapur in West Bengal were operating at half capacity since they began production in 1973. At full capacity they will consume 500,000 tonnes of naphtha a year. During 1974-75 three more naphtha consuming fertiliser plants are going to be erected at Tuticorin in Tamil Nadu, Mangalore in Karnataka and Barauni in Bihar which will need another 600,000 tonnes.

Naphtha requirements for the petro-chemical industries in Bombay and Gujarat will be about 450,000 tonnes by 1976.

SOME IMPORTANT COMPANIES

Union Carbide India Ltd. : Trombay, Bombay, established the first integrated petro-chemical complex in India in 1966, with a 60,000 tpa naphtha cracker (naphtha from Esso Refinery) and ethylene capacity of 20,000 tpa. There are also plants for polyethylene (15,000 tpa) and 2-ethyl hexanol (3,600 tpa).

National Organic Chemical Industries Ltd. : Thana, Bombay opened a larger petro-chemical complex in 1968 with a naphtha cracker of 225,000 tpa naphtha capacity (from Burmah-Shell Refineries) to produce 60,000 tpa of ethylene, 35,000 tpa of propylene, 7,200 tpa of butadiene and 14,000 tpa of benzene. From these a variety of organic chemicals are produced. **Polyolefines Industries Ltd.,** which produces 24,000 tpa of HDPE is an associated company of NOCIL.

Indian Petro-Chemicals Corpn., Ltd. : It has its first petro-chemical complex near Vadodara, Gujarat — the Rs. 280 million **Aromatic Project** — which began production in April, 1973. The project uses 112,000 tonnes of special fraction naphtha to produce 24,000 tpa of DMT, 21,000 tpa of ortho-xylene and 2,500 tpa of mixed xylenes. The Corporation will also have near Vadodara a Rs. 319

million **naphtha cracker** of 450,000 tpa throughput to produce 130,000 tpa of ethylene, 71,000 tpa of propylene, 18,000 tpa of butadiene and 24,000 tpa of benzene. The naphtha cracker is scheduled to be commissioned in 1976-77. The final products from the naphtha cracker will be as follows : Low density polyethylene 80,000 tpa ; polypropylene 30,000 tpa ; polybutadiene rubber 20,000 tpa ; ethylene glycol oxide 20,000 tpa ; detergent alkylate 30,000 tpa : acrylic fibre 12,000 tpa.

The above two projects are located adjacent to the Gujarat Refinery.

The second petro-chemical complex **The Bongaigaon Petrochemical Ltd.,** is being set up at Bongaigaon in Assam, as an adjunct to the one million tonne Bongaigaon Refinery. The petro-chemical complex envisages manufacture of 30,000 tpa of polyester fibre and 10,550 tpa of ortho-xylene. These will require 80,000 tonnes of a special cut naphtha out of which 46,000 tonnes will become available from the Bongaigaon Refinery while the remaining quantity will be obtained from the Gauhati Refinery.

These two petro-chemical complexes are estimated to cost over Rs. 5,000 million.

The IPCL's Research and Development Centre was opened in October, 1973 near Vadodara. It is expected to be completed in 1976-77 at an estimated cost of Rs. 70 million.

(See also the chapter on All India Corporations.)

Caprolactum Plant : Near Vadodara, Gujarat was commissioned in December, 1973 by **Gujarat State Fertiliser Corporation** to produce 21,000 tpa of caprolactum and 85 tonnes of sulphur dioxide and 85 tonnes of oleum daily. **GSFC** is also expected to commission 30,000 tpa styrene plant by 1977.

Note : tpa : Tonnes per annum.

PETROLEUM INDUSTRY

(Also see Chapter on "Energy Crisis")

BRIEF HISTORY

REAL foundation of oil industry in the public sector was laid only during the Second Plan period (1956–61) when the Government of India launched a planned programme of exploration, production, refining and distribution. The Oil and Natural Gas Commission was set up in 1956. This measure yielded success in exploration and soon, thereafter, the Government of India decided to create a Ministry of Petroleum and Chemicals in 1963.

Oil exploration had been started by Assam Oil Company/ Burmah Oil Company and their associates as early as the last decade of the 19th Century. However, it remained confined to the Upper Assam region. From 1949 to 1960 the Standard Vacuum Oil Company explored the West Bengal Basin first alone and then with the Government of India as the Indo-Stanvac Petroleum Project. The project, however, did not succeed, though it produced valuable data which has since been made the subject of very detailed studies in the light of advances in technology, achieved since then. So far commercial crude is found only in Assam and Gujarat.

Crude Demand: Present demand for crude in the country is 22 million tonnes of which **indigenous Production** is only 7 million tonnes. The demand is expected to increase to anything between 32 to 36 million tonnes depending upon the progress made in improving fuel usage and developing substitutes, particularly coal.

Production in Gujarat : About 10,000 tonnes of crude a day or about 3·7 million tonnes per annum.

Foreign Exchange Expenditure : In 1973 a sum of Rs. 3,740 million was allocated for imports of crude and petroleum products. This was reduced in August, 1973, by the Union Cabinet to Rs. 3,240 million.

Price of Imported Crude: As against U.S. $1·28 a barrel in 1970 the price in August, 1973 was U.S. $2·62 has almost quadrupled thereafter in less than 6 months.

Longest Pipeline : Imported crude for Mathura refinery will be piped from the Gulf of Kutch to Mathura a distance of about 1,222 kms. Additionally, a branch pipe line will meet the expansion requirement of the Koyali Refinery.

REFINERIES : There are 9 refineries in operation, two under construction and a twelfth one planned. Of these four are in the private sector — Burmah-Shell, Esso (Now Hindustan Petroleum Corporation Ltd.), Caltex and the Assam Oil Company — and are owned by foreign private oil companies. Esso Refinery has now come under the public sector since the Government has acquired 74 per cent of the equity.

The other five — Gauhati, Barauni, Koyali, Cochin and Madras — are in the public sector. The refineries at Gauhati, Barauni and Koyali are owned by the Indian Oil Corporation whilst Cochin and Madras by two separate refinery companies.

Capacity: At the end of 1972 the total capacity of the 9 refineries was 20 million tonnes — 11·75 in the public sector and 8·25 in the private.

Production : Crude processed during 1973 was 20·51 million tonnes — 11·48 million tonnes in public sector and 9·03 million tonnes in private sector.

Refineries Under Construction : HALDIA (West Bengal), with capacity of 2·5 million tonnes per annum, is estimated to cost Rs. 675·0 million. This is aided by France and Rumania and the trial runs have started from August 30, 1974.

BONGAIGAON (Assam): With capacity of one million tonnes per annum, this refinery is expected to cost Rs. 150 million and will go on stream in 1976.

MATHURA (Uttar Pradesh) : With capacity of 6 million tonnes this refinery is expected to cost Rs. 2,170 million, and expected to go on stream by 1978 and will be the biggest in the country.

Production : ONGC, Oil India Ltd., and Assam Oil Company are the only three agencies doing production work. During the period April to November 1972, the Commission supplied 285·3 million cubic metres of associated and non-associated gas to various consumers.

Production of crude oil ('000 tonnes)

	1970	1971	1972	1973
Quantity ..	6,809	7,185	7,373	7,197
Percentage increase over previous year	+ 1·3	+ 5·5	+ 2·6	− 2·4
Refinery Crude throughput :				
Quantity ..	18,459	19,589	19,672	20,518
Percentage increase over previous year	+ 5·5	+ 6·1	+ 0·4	+ 4·3

Consumption : All India consumption of petroleum products during 1971, 1972 & 1973:—

('000 tonnes)

Product	1971	1972	1973*
Light Distillates ..	2,992·9	3,280·7	3,467·4
Middle Distillates ..	9,757·4	10,517·1	11,011·4
HEAVY ENDS			
Furnace Oil	3,760·5	4,163·4	4,490·4
L.S.H.S.	1,027·8	1,091·6	1,136·2
H. H. S.	185·9	294·5	238·9
Total Fuel Oils ..	4,974·2	5,549·5	5,865·5
Lube Oils	541·7	564·1	580·3
Lube Greases ..	21·8	23·4	22·1
Total Lubes ..	563·5	587·5	602·4
Bitumen	948·4	1,143·9	1,127·6
Petroleum coke ..	150·9	171·1	124·9
Wax	36·8	54·5	46·8
Others	65·0	99·3	105·8
TOTAL (Products) ..	19,489·1	21,403·6	22,351·8
Refinery Boiler Fuel ..	1,150·5	1,209·9	1,145·2
GRAND TOTAL ..	20,639·6	22,613·5	23,497·0

* Provisional.

Oil and Natural Gas Commission (Tel Bhavan, Dehra Dun 248001 U.P.).

The Oil and Natural Gas Commission (ONGC) is India's biggest and the only public sector undertaking engaged in the exploration of hydrocarbons (crude oil and natural gas) resources — both on land as well as off-shore.

The ONGC was set up in August, 1956 and converted into a statutory body in October, 1959, by an Act of Parliament. The Commission has extended its exploration operations to all sedimentary basins (about 1·41 million sq. kms.) of India. It has at present 16 geological, 5 gravity-magnetic and 26 seismic field survey parties, 13 electro-logging parties and 33 deep drilling rigs in operation in various sedimentary basins of the country.

It had undertaken (upto the end of June, 1974) drilling on 124 structures (121 on land and 3 off-shore), of which 106 structures had been fully tested and the remaining were under testing or drilling. Of the 106 fully tested

**Exports of Petroleum Products for the years 1971 to 1973

Quantity : In tonnes
Value : In Rs. million

Products	1971		1972		1973	
	Quantity	Value	Quantity	Value	Quantity	Value
Light Distillates	140,683	21·23	3,995	8·43	13,597	5·50
Middle Distillates	6,537	1·67	89,181	67·32	140,844	46·72
Others	4,411	2·64	16,137	13·63	66	0·56
Total (Petroleum Prod.)	151,631	25·54	109,313	89·38	154,507	52·78
Crude oil†	—	—	862,942	136·23	—	—
GRAND TOTAL	151,631	25·54	972,255	225·61	154,507	52·78
Foreign exchange earned on a/c of supplies to :						
(*i*) Bunkers*	141,775	27·70	103,103	18·68	116,783	29·49
(*ii*) Airlines	133,688	58·89	161,523	82·35	100,801	59·66
TOTAL	275,463	86·59	264,626	101·03	217,584	89·15

* Excludes IOC sales to foreign Bunkers on KNPC account as the value for the same is not available.

** Include Re-exports. † Re-exports.

Imports of Crude Oil and Petroleum Products during 1971-1973

Quantity : In '000 tonnes
Value : In Rs. million

Products	1971		1972		1973*	
	Quantity	Value	Quantity	Value	Quantity	Value
1. Crude Oil	12,688	1,398·79	12,310	1,442·49	13,443	2,445·57
2. Petroleum Products						
Light Distillates	72	37·35	68	20·43	236	88·57
Middle Distillates	877	210·50	1,303	284·51	1,617	559·62
Others	983	187·05	1,886	262·00	2,122	355·70
TOTAL : (Petroleum Products) ..	1,932	434·90	3,257	566·94	3,975	1,003·89
GRAND TOTAL	14,620	1,833·69	15,567	2,009·43	17,418	3,449·46

* Provisional.

structures, 33 had been found to be oil or gas bearing — 26 in Gujarat, 5 in Assam, and one each in Himachal Pradesh and Rajasthan. This gives a success ratio of 1 : 3·W.

The Commission had by the end of June 1974, completed the drilling of 1,094 wells on these structures, with a total hole depth of 2·25 million metres. Of the 1,094 completed wells, 638 had proved oil and gas bearing.

As a result of drilling, the Commission has been able to discover, on land, 108·66 million tonnes of initial recoverable reserves (proved and probable categories) of crude oil, and a little over 25,000 million cubic metres of natural gas in Gujarat and Assam.

Production Rate : Beginning with 100 tonnes per day (0·04 million tonnes per year) of crude production in September, 1961, the Commission has stepped up it production rate to 11,400 tonnes per day (4·03 million tonnes per year). The current rate of production of natural gas is over 550 million cubic metres per year. By the end of June 1974, it had produced and sold 32·31 million tonnes of crude oil and condensate and 2,841 million cubic metres of natural gas and saved the country over Rs. 4,000 million in foreign exchange.

Off-shore Drilling: The country has approximately 385,000 sq. kms. of off-shore shelf area (where water depth is within 200 metres). The ONGC has carried out surveys in the Gulf of Cambay, Arabian Sea, Gulf of Kutch, Coromandal coast, areas off Krishna-Godavari delta and the south of Sunderbans extending westwards, and have discovered 18 structural features which are favourable for oil accumulation. Drilling of an exploratory deep well, with the help of **'Sagar Samrat'** the offshore drilling platform built to order for ONGC in Japan, on the **Bombay High** (Main) structures, 176 kms. west of Bombay has indicated the presence of oil in commercial quantities at a depth of 962 metres.

Overseas Operations: The Commission is also exploring for and developing oilfields and producing oil in an area in the Persian Gulf, in collaboration with AGIP of Italy, Phillips Petroleum of U.S.A., and the National Iranian Oil Company. The interests of the Commission in this joint venture are looked after by its wholly owned subsidiary company, named, Hydrocarbons India Pvt. Ltd. (HIPL) (D-35 South Ext. Part II, New Delhi 110049).

The operations in the Persian Gulf started in 1965. At present, HIPL's equity share of oil from these two fields is about 0·6 million tonnes per year. Till March, 1974, the crude oil lifted by the HIPL totalled to 24·13 million barrels.

Iraq : The ONGC has secured an area in Iraq for conducting oil exploration, development and production operations, on service-contract basis. The minimum expenditure obligation undertaken on exploration (risk expenditure) is $6·00 million (Rs. 47 million approximately the first phase of seismic survey commenced at the end of March 1974.

Oil India Ltd. (H.O. Duliajan, Upper Assam) : Next to ONGC this is the other major oil producing organisation. It has a 50·50 partnership of the Government of India and Burmah Oil Company. It holds mining leases over an area of 1,990·02 sq. kms. and petroleum exploration licences over an area of 551·668 sq. kms. in Arunachal Pradesh.

Upto the end of Dec. 1973, a total of 267 development wells and 70 exploratory wells with a total meterage of approximately 1·102 million have been drilled.

The company plans to maintain 3·08 million tonnes crude production per year. The production of crude for calendar year 1973 was 3·10 million tonnes. Of this the company supplied 3·09 million tonnes to Indian Oil Corporation's refineries at Gauhati and Barauni and the Assam Oil Company's refinery at Digboi.

Assam Oil Company: (Digboi, Assam). The Assam Oil Company is a wholly owned subsidiary of The Burmah Oil Company and has drilled 1,001 wells, out of which 369 are on production with an annual throughput of 0·083 million metric tonnes of crude oil. The AOC Refinery at Digboi processes 0·53 million tonnes of crude oil annually, the balance crude oil being supplied by Oil India Ltd.

Digboi oilfield is the oldest in India and one of the oldest in the world. It continues to produce crude oil, though at a declining rate. The Assam Oil Company, formed by the Assam Railways and Trading Company Limited in 1889, took over the lease concession granted to both the parent company and the Assam Oil Syndicate in 1899. The Burmah Oil Company acquired control of the company in 1921.

Chairman : N. J. D. Williams.

Indian Oil Corporation Ltd. : (Regd. Office : 254-C, Dr. Annie Besant Road, Prabhadevi, Bombay 400025). The Indian Oil Corporation comprises two divisions *viz.* Refineries Division and Marketing Division.

Refineries & Pipelines Division (Indianoil Bhavan, Janpath, New Delhi 110001) builds and manages oil refineries in the public sector. At present, Indianoil has three refineries at Gauhati (Assam), Barauni (Bihar), and Koyali (Gujarat).

Indian Oil is constructing three refineries. One at Haldia (West Bengal) with a capacity of 2·5 million tonnes is nearing completion. The second one will be at Bongaigaon in Goalpara district of Assam with a capacity of one million tonnes per annum.

The third refinery is proposed to be set up at Mathura (Uttar Pradesh) with a capacity of 6·0 million tonnes. This will be the biggest in the country.

This Division also lays oil pipelines and manages Gauhati—Siliguri, Haldia—Barauni—Kanpur and Koyali—Ahmedabad pipelines.

Marketing Division with its headquarters in Bombay is responsible for distribution of petroleum products produced by three refineries of IOC and two other public sector refineries at Cochin and Madras.

Started in 1960 it is now the largest marketing organisation. Its market participation in 1972-73 was about 58 per cent as against 54·2 per cent in the previous year. In 1972-73 the Corporation sold about 16 million kilolitres of petroleum products.

Indianoil has put up its own lube blending plant at Madras and has also developed its own drum plant at Madras. It is also developing its Research & Development Centre at Faridabad near Delhi.

Indian Oil International Ltd.: A wholly-owned subsidiary of the IOC operating in Nepal from June 11, 1970 is being wound up in view of the nationalisation of Oil Industry in that country.

Indian Oil Blending Ltd. : Till recently a 50 : 50 joint venture of Indian Oil Corporation Ltd. and Mobil Petroleum Corporation of U.S.A. to operate two lube blending plants in Bombay and Calcutta and a grease manufacturing plant in Bombay is being fully taken over by Indian Oil Corporation Ltd.

Indo-Burma Petroleum Co. Ltd. : (Regd. Off.: Gillander House, N. Subash Rd., Calcutta 700001). It became a subsidiary of the IOC 12th January, 1970, after the Corporation purchased 579,400 ordinary shares from Steel Brothers & Co. Ltd. It markets motor gasoline and diesel oil of the IOC refineries.

The company has also diversified into manufacture of sophisticated electronics equipment (both medical and industrial) and special purpose machinery. In 1972 the company took over the management of Balmer Lawrie Group of Companies.

Burmah-Shell Refineries Ltd. : The refinery was incorporated on Nov. 3, 1952 and commenced operations at Trombay on January 30, 1955. The crude processing capacity of the refinery is around 5·5 million tonnes per annum, the actual intake presently is around 2·5 million tonnes per annum.

The Refinery manufactures motor spirit, kerosene, aviation turbine fuel, high speed diesel oil, light diesel oil, jute batching oil, fuel oil, bitumen, liquefied petroleum gas, special boiling point solvents, refinery gas, aviation gasoline, naphthas, mineral turpentines, carbon black feedstock, hot heavy stock and cutbacks.

The initial cost of the Refinery was about Rs. 260 million and the total number of employees engaged in the various categories at present is around 1,175.

Chairman : M. S. Patwardhan ; *Mg. Director :* M. H. Wijvekate.

Caltex Oil Refining (India) Ltd. : Located at Visakhapatnam the installed capacity of the refinery is 1·6 million tonnes of crude per annum. The refinery produces liquid petroleum gas, naphtha, two grades of motor gasoline, aviation turbine fuel, mineral turpentine, kerosene, Hi-speed oil, light diesel oil, furnace oil and asphalt.

Chairman : F. W. Zingaro ; *President :* V. P. Ryan ; *Mg. Director :* F. H. Levenhagen.

Hindustan Petroleum Corporation Ltd.: A public sector company with 74 per cent of the equity shares held by the Government of India, and the balance 26 per cent by **Esso Eastern Inc., U.S.A.** The Company's main operations are petroleum refining, manufacture of lubricating oil base stocks and marketing of petroleum products. The Company has 3,100 employees in its three operations.

Fuel Refinery : Situated at Trombay near Bombay, the fuel refinery went on stream in 1954. It was built at a cost of Rs. 175 million. During 20 years of operations, it has increased its capacity from 1·25 million tonnes/year to 3·5 million tonnes/year. It has saved foreign exchange of approximately Rs. 2,000 million so far.

The refinery manufactures a wide range of petroleum products. In addition to major fuels like kerosene, diesel, gasoline, fuel oil, LPG, jet fuel, it has developed through R&D work many other petroleum speciality products.

Lube Refinery : The lube refinery, originally known as Lube India Ltd., a joint sector enterprise between the Government of India and Esso, started operations in late 1969 adjacent to the fuel refinery. Original investment in the plant was Rs. 170 million. The refinery uses as raw material the reduced crude from the fuel refinery. It has been operating at higher than the designed capacity of 164,000 MT/annum.

Marketing Division : The marketing division distributes petroleum products throughout the country. In addition to two lube blending plants at Bombay and Calcutta, it has 10 district offices, 9 bulk plants, 55 depots and nearly 1,900 retail outlets. The Company currently accounts for 12 per cent of the country's petroleum needs.

Public Sector : The first public sector refinery at **Gauhati** in Assam was commissioned in January 1962. The Rumanian Government have provided the necessary technical and financial assistance for the refinery.

The second public sector refinery at **Barauni** in Bihar was commissioned in the second half of 1964. The initial capacity of two million tonnes has been expanded to three million tonnes since Jan. 1969. The foreign exchange cost and technical assistance for the Barauni refinery was met out of the Soviet credit.

The refinery processed over 751,700 tonnes of crude during 1974 against its annual production capacity of 750,000 tonnes.

The third public sector refinery has been constructed at **Koyali** near Vadodara in Gujarat and was commissioned in October 1965. Its initial capacity was two million tonnes and has been increased to three million tonnes since September 1967. The technical assistance and financial assistance has been supplied by the Soviet Union.

Cochin Refinery : (P. Bag 2, Ambalamugal 682302, Ernakulam Dist., Kerala). This is a participatory refinery project in the public sector, the principal collaborators with the Government being Messrs. Philips Company, U.S.A. It was commissioned on 19th Sept. 1966.

The Refinery was originally designed to produce annually 2·5 million tonnes of petroleum products and the capacity has now been expanded to enable it to process 70,000 barrels of crude per day or 3·5 million tonnes annually. The present investment including expansion is Rs. 330 million.

Chairman : C. R. Pattabhiraman ; *Managing Director :* John W. Loy.

Madras Refineries Ltd. : (Regd. Office and Refinery: Manali, Madras 600068) : The refinery was incorporated in Dec. 1965 and started production in June 1969. A joint venture of the Government of India (major share-holder), National Iranian Oil Company, Amco India incorporated, U.S.A., the Madras Refinery is designed to process 2·5 million tonnes per annum of Darius crude oil from Persian Gulf, Iran (50,000 barrels per calendar day). Products : Motor gasoline, superior kerosene, naphtha, high speed diesel oil, light diesel oil, lube base stocks, jet fuel furnace oil, liquid petroleum gas, asphalt and sulphur.

Capacity: 2·5 million tonnes per annum ; **Production :** 2·3 million tonnes valued at Rs. 1,419·7 million ; No. of **Employees :** 456 ; **Capital :** Rs. 135 million.

Chairman : M. Rama Brahmam ; *Managing Director :* Dr. M. S. Nadkarni.

Oil Industry Development Board : It was set up on January 13, 1975 to give financial and other assistance for the development of the oil industry (See also Ministry of Petroleum and Chemicals).

RESEARCH

Research is being conducted in all phases of the petroleum industry. The ONGC has set up the **Institute of Petroleum Exploration** at Dehra Dun with the help of the U.N. for research and training in the exploration and production phases of the industry. **The Indian Institute of Petroleum** in Dehra Dun was set up under the control of the Council of Scientific and Industrial Research to conduct research and training in the refining and marketing phases of the industry.

ALLIED COMPANIES

Engineers India Ltd. : (See Chapter on "Government Undertakings").

Lubrizol India Ltd. : (Thana-Belapur Road, Turbhe, Thana, Maharashtra). A 51 : 49 equity holding of the Government of India and The Lubrizol Corporation, U.S.A. In the first phase the plant was to produce 6,000 tonnes of chemical additives per year. Production was started in November 1968. With the success of the first phase the company is now implementing the second phase, the installation of basic chemical processes, utilising indigenously manufactured chemical raw materials.

Chairman : Dr. M. G. Krishna ; *Managing Director :* Dr. J. P. Dalal.

SHIPPING INDUSTRY

BRIEF HISTORY

THE earliest evidence of shipping and ship-building activity is found in the archaeological remains of Mohen-jo-daro, in the Indus Valley, dating back to some 3000-5000 B.C. Ever since the shipping and shipbuilding industry has passed through various periods of vicissitudes.

At the time of the country's independence in August, 1947, India had only 48 coastal vessels with 119,000 GRT (gross tonnage) and 11 foreign-going vessels with 73,000 GRT.

Indian Register of Shipping : With offices in Bombay (headquarters), Calcutta, Madras, Cochin and Visakhapatnam this classification society will supervise shipbuilding and when operating, that they are properly maintained. Chief Executive : H. S. Rao.

National Maritime Day : 5th April.

Position Today : On Sept. 1, 1974, there were 3 million tonnes in operation and 2·2 million tonnes on order. By the end of the Fifth Plan (1979) the target fixed is 8·5 million tonnes.

Ranking in the World : Indian merchant fleet by the total GRT occupies the 16th position in the world.

SHIPBUILDING INDUSTRY

(See chapter on Government Industrial Undertakings where details of Hindustan Shipyard, Mazagaon Dock, and Garden Reach Workshops are given).

Two new shipyards for the construction of large ships upto 360,000 DWT are to be constructed in the Fifth Plan period. One firm each from the U.K., Yugoslavia and Norway have been commissioned to choose two sites from the following four: Haldia in West Bengal, Paradeep in Orissa, Curlavangli Vangani in Goa and Hajira in Gujarat.

Merchant Fleet in Operation : On 31st December, 1972, the total merchant fleet consisted of 258 ships of 2,616,859 GRT. The position during 1972 was as follows :

	COASTAL		OVERSEAS		TOTAL	
	No.	GRT	No.	GRT	No.	GRT
As on 1st April 1972	62	217,603	195	2,302,817	257	2,520,420
Acquisition	+ 4	+ 14,662	+ 8	+135,214	+12	+149,876
Scrapping	− 7	− 31,083	− 4	− 22,354	−11	− 53,437
As on 3rd December 1972 ..	59	201,182	199	2,415,677	258	2,616,859

TRAINING INSTITUTIONS

Shri Narotam Morarji Institute of Shipping : At Tanna House, 11-A, Wodehouse Rd., Bombay 400001 has been functioning since April, 1969. It imparts training and conducts examinations on matters pertaining to the commercial side of shipping — chartering, ship broking practice, marine insurance etc. Chairman : C. P. Srivastava ; Vice-Chairman : N. M. Mehta ; Officer-in-Charge : P. B. K. Menon.

Great Eastern Shipping Co., *Direct Entry Cadet Training Scheme :* Mercantile Bank Bldg., Mahatma Gandhi Rd., Bombay 400 001, trains cadets, selected through written examinations and interviews in the navigation branch. Training period will be three years at sea and 10 months ashore before candidate can appear for second mates examination.

Merchant Navy Training Board : At Jahaz Bhavan, Walchand Hirachand Marg, Bombay 400001, advises the Government on all matters pertaining to the training of merchant navy personnel.

The Government of India has set up six training establishments for the training of merchant navy officers and ratings. The Training Ship. "**Dufferin**" now replaced by T. S. "**Rajendra**" provides pre-sea training course of two years for navigating cadets. The new training ship has an intake of 125 cadets, 45 cadets more than the old one. The **Directorate of Marine Engineering Training** provides a four years' course for engineering cadets. The boys desirous of undergoing training in the two institutions are drawn from all parts of the country through All India Competitive Examination followed by interviews and medical and eyesight tests.

Rules for Entry into T.S. '**Rajendra**' and D.M.E.T. are as follows: **Age Limit :** A candidate must have completed 16 years of age and must not have exceeded 18 years on January 1 of the year of entry. **Eligibility :** A candidate is eligible, provided he has passed (1) the higher secondary examination either (*a*) in the science stream with chemistry, mathematics and physics as elective or optional subjects, or (*b*) in the technical stream, or (2) the pre-university examination with some science group or any equivalent examination, or (3) the Indian School Certificate Examination, or (4) the first year examination of the Inter-Science or F.Sc. course both again with the same elective subjects.

The present intake in D.M.E.T. is 100 cadets per annum.

The Lal Bahadur Shastri Nautical and Engineering College at Hay Bunder, Tank Road, Bombay 400033, provides post-sea instructional courses for both navigating and engineering cadets and apprentices who are preparing for Ministry of Transport Certificate of Competency Examinations. There is a Life Boat School attached to the college.

Ratings Training Establishments : The Training Ship "**Bhadra**" (Calcutta), "**Mekhala**" (Visakhapatnam) and "**Naulakhi**" (Navlakhi-Gujarat) are ratings' training establishments. These institutions provide a six months' course for deck and engine ratings. Candidates between the age group 18 to 22 with minimum educational qualification of 8th standard pass are eligible for admission, if medically-found fit. An advertisement is published in all important newspapers in India in different languages once in a year or when necessary for selection of candidates for pre-sea training courses and they are selected on merits after an interview at Bombay by the Director, Seamen's Employment Office and at Calcutta, Navlakhi and Visakhapatnam by the respective Captain Superintendents of the training ships according to the number required each year.

Recruitment of Seamen : Seamen's Employment Offices were set up in Bombay and Calcutta to regulate the supply of seamen to foreign-going vessels on the principle of rotation.

The number of seamen available on 30th November, 1972 for employment on foreign-going ships was 29,617 at Bombay and 11,870 at Calcutta. The number of jobs available, however, were 19,314 in Bombay and 6,384 in Calcutta.

On Home Trade ships the number of seamen available were 1,084 at Bombay for 644 jobs and 216 at Calcutta for 129 jobs.

Seamen's Welfare : The seamen's welfare offices at the ports of Bombay, Calcutta, Madras and overseas at Sydney, London, Liverpool and Glasgow take care of the welfare of Indian seamen. The Principal Seamen's Welfare Officer at London has the additional duties of finding jobs for Indian seamen on foreign-owned ships. His jurisdiction is entire Europe.

Inland Water Transport : In order to harness all possible modes of transport for easier and faster movement of goods the Government is considering the development of inland water transport system. If the 36 main proposals made by the expert committee under the chairmanship of Mr. B. Bhagwati in its report submitted in October 1970, are to be implemented the expected outlay would be Rs. 124·22 million during the Fourth Plan and Rs. 148·90 million during the Fifth Plan period. The scheme is being studied by the Government.

SILK INDUSTRY

BRIEF HISTORY : Sericulture in India fall into two sectors, mulberry and non-mulberry. Mulberry silk industry is better organised and accounts for nearly two-thirds of the natural silk production. The non-mulberry sector comprises of tasar, eri and muga silk. India is thus, the only country in the world which produces all the four commercially known varieties of natural silk.

LOCATION OF THE INDUSTRY: Andhra Pradesh: Produces mulberry, tasar and eri. Mulberry in the Anantapur and Chittoor districts, eri in Mahbubnagar and Kurnool while tasar in the forest regions along the banks of the river Godavari in Karimnagar, Warangal, Srikakulam and Adilabad districts. About 13,000 persons are employed.

Assam : Produces muga, eri and mulberry raw silk mostly in Goalpara, Kamrup and Nowgong districts. Sibsagar is prominent for mulberry production. It is estimated that about 360,000 people derive their livelihood from silk cultivation.

Due to the formation of Meghalaya, most of the sericultural centres were bifurcated.

Bihar : Bihar is the second largest producer of tasar silk nearly 63 to 64 per cent of production mainly in the districts of Hazaribagh, Ranchi, Singhbhum, Chota Nagpur, Palamau, and Santhal Parganas. About 100,000 people derive their livelihood.

Jammu & Kashmir : The univoltine mulberry silk industry is mainly located in Anantnag, Baramulla, Doda, Jammu, Reasi and Udhampur districts. It provides employment to about 38,000 persons.

Karnataka : It is the biggest multivoltine mulberry silk producing State in India contributing over three-fourths of the total production. The industry is concentrated in the districts of Bangalore, Kolar, Mandya, Mysore and Tumkur and to a small extent in Belgaum and Coorg. Tasar production has been started in North Canara and Belgaum districts. About 2 million are gainfully employed.

Madhya Pradesh : Is the second largest producer of tasar silk in the country. It is largely based in the districts of Balaghat, Bastar, Bilaspur, Raigarh, and Surguja. Mulberry is also cultivated to a small extent in Surguja, Chindwara, Indore, and Sehore districts, and provides subsidiary occupation to nearly 39,000 families.

Maharashtra : Bhandara and Chandrapur districts have traditional tasar culture and there is one tasar seed farm at Armori ; it has also taken up eri culture and mulberry production on experimental basis. 15,000 persons are estimated to be employed by the industry.

Meghalaya : Mulberry, eri and muga silk are being produced in the Khasi and Garo hill districts providing employment to 6,000 persons.

Orissa : Tasar and eri silk is concentrated in Mayurbhanj and Keonghar districts where about 10,000 people are employed.

Punjab : Mulberry silk is produced mainly in the districts of Amritsar, Gurdaspur, Hoshiarpur and to some extent in Ferozepur.

Tamil Nadu : The sericultural industry is confined to the districts of Coimbatore, Nilgiris, Salem, Tirunelveli and Dharampuri. It provides employment to about 36,000 people.

Uttar Pradesh : Mulberry silk is cultivated in Dehra Dun, Etawah, Garhwal, Gorakhpur, Nainital and Saharanpur. Ericulture is carried on in Rampur and Deoria and tasar culture in Mirzapur district. About 5,500 persons are employed.

West Bengal : Is the second largest mulberry silk producing State in the country, accounting for over 20 per cent of the total output. It is concentrated in the districts of Bankura, Birbhum, Darjeeling, Malda and Murshidabad. About 400,000 persons are employed.

Himachal Pradesh : Rears univoltine mulberry silkworms in Kangra district. The other regions where sericulture is practised are Sirmur and Mandi districts. 10,000 persons earn their livelihood.

Manipur: Has both mulberry and eri silk cultivation and potential for tasar culture. About 3,000 persons are employed. A target of 510,000 kgs. of tasar silk by the end of the Fifth Plan has been fixed.

Tripura : Sericulture has been recently introduced. Some 2,600 persons have taken up silk cultivation.

Union Territories : Mulberry and eri industries have also been introduced in Arunachal Pradesh, Mizoram and Nagaland where about 4,600 people are gainfully employed.

Ranking in the World Market : With a production of 2,400 tonnes of mulberry silk and 675 tonnes of wild silk in 1973-74 India continued to rank fifth among the silk producing countries of the world accounting for slightly over 5 per cent of the world production. However, India is the only country in the world where the fabulously famed golden "Muga Silk" is raised and is also the second largest producer of tasar silk, next only to the People's Republic of China.

Production & Consumption of Raw Silk (in '000 kgs.)

Year	Mulberry	Non-Mulberry	Total	Imports	Consumption
1971–72	2,046	554	2,600	18	2,618
1972–73	2,215	570	2,785	38	2,823
1973–74*..	2,400	675	3,075	6	3,081

* Estimated.

SPUN SILK INDUSTRY: India also produces silk-waste — by-product of reeling sector, which constitutes the basic raw material for the spun silk industry. The total production of silk-waste during 1972-73 was 890,992 kgs. mulberry and 243,474 kgs. non-mulberry.

There are two spun silk mills, located at Channapatna in Karnataka and Jagi Road in Assam, having installed spindleage of 7,500 and 3,000 respectively. A third spun silk mill is under installation at Bhagalpur which will have 3,000 spindles.

About two-thirds of silk-waste production is exported.

Tariff Protection : Sericulture industry has been under tariff protection since 1934. The current rate of protective duty on raw silk is 30 per cent *ad valorem* plus 5 per cent auxiliary duty.

EXPORTS : Following are the figures in million rupees for the last three years. 1971 — 75·498 ; 1972 — 82·123 ; 1973 — 135·833 ; 1974 — 97·05.

IMPORTS : Of raw silk over the last four years (in million Rs.) : 1970 — 4·83 ; 1971 — 3·93 ; 1972 — 5·71 ; 1973 — 2·7.

Central Silk Board : In 1945, the Silk Panel, appointed by the Government of India to advise on the development of sericulture, recommended the constitution of Central Silk Board. Accordingly the Central Silk Board Act, 1948 (Act. LXI of 1948) was enacted and the Board was set up in April 1949.

The Headquarters of the Board are located in Bombay. The Board has set up 4 Regional Offices to ensure close co-ordination of Central and State efforts to develop the sericulture industry. *Head Office :* Central Silk Board, 'Meghdoot', 95-B, Marine Drive, Bombay-400002. Tele. Add. : 'SILKBOARD', BOMBAY.

Regional Offices : (1) 10, Kengal Hanumanthiah Road, Bangalore-560027. Tele. Add : 'SILKBOARD'. (2) 4, Tottee Lane, Off Sudder Street, Calcutta-700016. Tele. : 'SILKBOARD'. (3) 8-B, Pusa Road, Rajinder Park, New Delhi-110060. Tele : 'SILKBOARD'. (4) Silk Factory, P.O. Rambagh, Srinagar-190001, Tele. : 'LIAISON'.

Inspection Centres : The Board is in charge of pre-shipment inspection for which facilities are available at the Regional Offices and three centres listed below :— (1) 44, D. N. Singh Rd., Bhagalpur 812001 (Bihar) ; (2) 41, East Mada St., Malapore, Madras-600004. Tele. : 'SILKBOARD' ; (3) K 61/158 B, Rajdevi Katra, Bulanala, Varanasi 221001. Tele. : 'SILKBOARD'.

RESEARCH AND SERVICE STATIONS : Exclusively for mulberry silk sector: Central Sericultural Research & Training Institute, 78, Shantivilas, Nazarbad, Karnataka 570010 ; Central Sericultural Research Station, Berhampore-742101 (West Bengal) ; Regional Sericultural Research Station, P.O. Kalimpong-734301 (West Bengal); Univoltine Research Sub Station, Majra, Via Dehra Dun (U.P.).

Exclusively for tasar silk sector : Central Tasar Research Station, Nirvan No. 1, West End Park, Hehal Post, Ranchi-834005 (Bihar).

Regional Tasar Research Station, Mantripokhri, Imphal-795001 (Manipur).

Regional Tasar Research Station, Bhimtal (U.P.).

Regional Tasar Research Station, Batote (Jammu & Kashmir).

Exclusively for eri and muga silk sector: Central Eri & Muga Research Station, Titabar (Assam).

Service Stations : Basic seed stations have been set up to produce high quality disease free seeds. Following three stations have been organised so far : **Mulberry Sector :** Central Silkworm Seed Station, P.O. Pampore (Jammu & Kashmir) ; Silkworm Seed Station, Coonoor-643101 (Nilgiris), Tamil Nadu. **Tasar Sector :** Central Tasar Silkworm Seed Station, P. O. Lakha (Raigarh Dist.), Madhya Pradesh.

Training : A fifteen month post-graduate course is offered at the Central Sericultural Research and Training Institute, at No. 78, Shanthi Vilas, Nazarbad, Mysore 570010. The academic session commences in July every year. The course includes a 3 months' intensive training in the practice of sericulture both in the mulberry and non-mulberry sectors. The capacity of the Institute is to train 20 students every year.

Training at "technician" level is imparted by the sericultural States themselves. Such institutes are at (1) Srinagar (Jammu & Kashmir); (2) Channapatna (Karnataka) ; (3) Berhampore & Malda (West Bengal) ; (4) Bhagalpure & Chaibasa (Bihar) and (5) Titabar (Assam).

Publications : (1) Indian Silk (monthly) ; (2) Indian Journal of Sericulture (Annual) ; (3) Silk in India (Biennial), all brought out by the Central Silk Board.

FIFTH FIVE-YEAR PLAN: Main projections are (*i*) to push up raw silk production in Karnataka to 3,500 tonnes by 1982 ; (*ii*) raise the mulberry hectarage in West Bengal to 1,012 hectares ; (*iii*) to achieve a production target of 150 tonnes per annum in Jammu & Kashmir ; (*iv*) intensify the efforts to produce 800 tonnes of superior bivoltine mulberry raw silk in Karnataka, West Bengal and Jammu & Kashmir States; (*v*) intensify cultivation of tasar culture in Bihar, Madhya Pradesh and Orissa with emphasis on block plantation techniques ; (*vi*) setting up two Central Corporations — one each in mulberry and tasar sectors for rationalising the marketing structure and imparting stability in the markets ; (*vii*) popularise oak tasar culture in Manipur, Uttar Pradesh, Himachal Pradesh and Jammu ; (*viii*) intensify research and extension work to further the achievement of the physical targets set for V Plan ; (*ix*) strengthen the rapport with the International Sericultural Associations ; (*x*) open up show rooms for Indian silks in foreign countries and (*xi*) intensify research efforts on technological problems covering silk fabrics to meet the challenging demands of the discerning fashion houses abroad.

SMALL-SCALE INDUSTRY

DEFINITION : The official definition of a small-scale industry includes, all industrial units with a capital investment of not more than Rs. 1 million irrespective of the number of persons employed. Capital investment for this purpose means investment in plant and machinery only.

Fifth Plan : During the Fifth Plan period a list of 445 items are proposed to be taken up for manufacture under small-scale sectors. Items under different catagories are as follows :—

Category — A :— *Resource-based industries* — (1) *Wood and timber industres*, such as saw mills, woodwork, furniture, sports goods etc.; (2) *Agricultural implements*— Agricultural machinery like winnowers, fertilizer drills, harrows etc.; (3) *Textile and fibre industries* — Handloom, hosiery and knitted goods, fibres from banana stalk etc.; (4) *Food industries* — Confectionery, dairy products, spices and condiments products etc.; (5) *Leather Industries* — Foot-wear, leather goods etc., (6) *Other industries* — Cow-dung gas plant, poultry equipment, pesticides etc.; (7) *Mineral-based* (*Ceramic and Glass*) *Industries* — (*a*) Building material —(Cements, Tiles etc.) ; (*b*) Household requirements (Crockery, mirrors, etc.) ; (*c*) Industrial requirements (Abrasives, Carbon blocks, Fibre glass products etc.) ; (*d*) Other Ceramics.

Category — B I : — *Engineering Industries* (1) : *Reserved items* such as Auto leaf springs, Beam scale, Chaff cutter blades, Expanded metal etc.; (2) *Surgical and medical instruments* — Dental engines, dental drills, Hypodermic needles, Scientific instruments, Microscopes etc.; (3) *Machine Tools,* — Lathes, welding machines (gas, electric) etc.; (4) *Machine tools accesories* — Magnetic chucks, slewes, mandrels etc.; (5) *Small Tools* — Hacksaw blades, cutting saws, Machine Knives etc.; (6) *Hand Tools* — Diamond Dresses, Glass cutters, Hacksaw frames etc.; (7) *Surveying Instruments* — Drafting machine, slide rules, Instrument boxes etc.; (8) *Casting and forging* — Machine Tool Casting, Sanitary fittings, Bib Cocks etc.; (9) *Printing Machinery* — Offset, Rotogravure, stitching machines, paper cutting machine etc. ; (10) *Bakery Machines* — Dough kneaders, baking oven, slicing machine etc. ; (11) *Foot-wear and Tannery* — Edge trimming machine, fleshing, shaving machine, upper leather splitting machine etc.; (12) *Packaging Machinery* — Ampule filling, sealing, washing and labelling, bottle washing, carton forming machines, coating, laminating and waxing plant etc.; (13) *Hosiery and Textile Machinery* — Braiding, Chain lock, Jersey knitting machines etc.; (14) *Bicycle and Plants* — Cycles, Tricycles, Axle, Mudguards etc.; (15) *Builders Hardware* — Flush bolts, hydraulic door closures, locks and Venetion blinds etc. ; (16) *Sewing Machines and Parts* (17) *Industrial and Miscellaneous Machinery ;* (18) *Secondary Processing of Basic Materials.*

Category — B II : — *Electrical Industries :* (1) *Accessories for Generating Equipment* — Such as Switching and Control cubicles, Terminal connecting cables, Rectifiers etc.; (2) *Transmission and Distribution* — Control accessories, Air-break switches, Vibration Dampers,. Transformers etc.; (3) *Electric Motors ;* (4) *Electrical Fans ;* (5) *Switches and Switchgear ;* (6) *Wires and Cables ;* (7) *Storage batteries ;* (8) *Domestic Electric Appliances* — Coffee percolators, room heaters, vacuum cleaners, hot plate, hairdryers etc.; (9) *Railway Electric Equipment* — Loco dynamos, signalling equipment, etc.; (10) *Automobile Electrical Accessories* — Auto pumps, starters, ignition switches, wiring harness ; (11) *Furnaces and Ovens ;* (12) *Electrical Measuring equipment and Scientific Laboratory equipment* — Amperemeters, Flux meters, battery cell testers etc. (13) *Electric Lamps* (14) *Electric lighting accessories* — Decorative light fittings ; (15) and Miscellaneous other electric items.

Category — B III : — *Electronic Industries* (1) *Consumers Electronics*—Audio Amplifiers, Electronic Digital Watches, Hearing Aids, Radio Receivers etc. (2) *Instruments and Instrumentation* — Audio Oscillators, Computers display terminals, Digital Measuring instruments, Biological amplifiers, Cardioscopes, Computer Peripherals like Digital Magnetic Tape etc. (3) *Electronic Components and hardware* — Fixed Capacitors, Variable capacitors and Trimmers, Connectors, Key boards for desk calculators etc., Magnetic Components, Resistors, switches etc.

Chemical Industries: Adhesives, Barium Salts, Detergents, Paints, Phyto-Chemicals (like Caffeine, Nicotine, Sulphate, etc), PVC Films etc.

Ancillary Industries : Capital ceiling on ancillary industry has been placed at Rs. 1·5 million in order to make this important sector more efficient. For this purpose a unit which produces parts, components, sub-assemblies and tooling for supply against known or anticipated demand of one or more large units manufacturing or assembling complete products and which is not a subsidiary to or controlled by any large unit in regard to the negotiation of contracts for supply of its goods to any large unit, is considered an ancillary unit.

Industrial units pertaining to the following 20 industries are being promoted as ancillaries : Indl. Machinery ; Agricultural and earth-moving machinery ; Machine tools ; Indl., scientific and mathematical instruments (mechanical); Locomotives and rolling stocks ; ships and aircrafts ; Bicycles ; Boilers and steam-generating plants ; Steam engines, turbine and internal combustion engines ; Automobiles ; Commercial office & household equipment ; Electrical machinery, equipment and appliances ; telecommunications equipment ; Industrial instruments (electrical) ; Radio and electronic equipment ; Air-conditioners and cold storage equipment including refrigerators ; Mineral oil and petroleum industry ; Railway rolling stocks, track equipment and signalling equipment ; Chemicals (for packing industries) ; Fertilizers (for packing industries) ; Iron and steel industry.

Priority Industries : Manufacturers of the following items are accorded priority from the capital goods angle :—

Motorcycles ; Scooters ; Bicycles and Bicycle Parts ; Mopeds ; Agricultural Tractors ; Agricultural Machinery and implements ; Pumps ; Fertilizers ; pesticides ; Basic metal-iron and steel, copper, aluminium, zinc and lead ; Industrial and mining machinery ; Iron and steel castings, forgings, pipes and structures ; Internal combustion Engines; Machine tools and accessories ; Workshop machinery and equipment other than machine tools ; Small tools including cutting tools, power tools and other workshop tools ; Coated and bonded abrasives and polishing wheels ; Industrial furnaces ; Welding electrodes ; Ball and roller bearings ; Transformers, switchgears, motors, generators, power capacitors, rectifiers, relays and electric stampings ; Electrical cables and wires ; Storage batteries, dry batteries ; Electronic components ; Construction and earth moving equipment ; Cranes and hoist blocks ; Industrial fasteners ; Scientific and Industrial instruments ; Wire ropes ; Cement ; Organic and inorganic heavy chemicals including lead oxide, white lead, zinc oxide and Titanium Dioxide ; Fine chemicals ;

Pulp, paper and newsprint; Synthetic rubber; Tyres and tubes; Industrial explosives; Industrial gases; Drugs; Medical and Surgical Equipment and appliances; fire bricks and insulators; Commercial vehicles including jeeps and three wheelers; Automobile ancillaries; Trawlers, dredgers and finishing boats; Leather and leather goods; Optical and laboratory glass and glass wool; Jute textiles; Tea; Coffee, Canned and preserved fish; Sanitary cans; Paints and varnishes and enamels; Man-made fibres, Matches; Telecommunication equipment; Wagons; Industrial refrigeration equipment; Sugar; Cotton textiles.

Reserved Industries : Following is the list of industries reserved exclusively for development in the small scale sector :

Mechanical Engineering Industries : Agricultural implements (*a*) Hand-operated tools and implements; (*b*) Animal-driven implements; Barbed Wire: Beam scale; Bolts and nuts (except for high tensile and other special type); Belt fasteners; Bicycle tube valves; Builders' hardware; Centrifugal pumps upto size 4″ and 4″; Chaff cutter blades; Circlips; Conduit Pipes — Metallic; Cutlery; Diesel engines upto 15 H.P. (slow speed); Domestic gas appliances such as cooking ranges, water meters, hot plates etc.; Domestic Utensils (other than stainless Steel); Drawing and Mathematical instruments and survey instruments excluding theodolites; Drums and Barrels (upto 50 litre capacity); Duplicating machines other than special type; Electric Transmission line hardware (other than those manufactured in malleable castings); Expanded metal; File mechanism; Gate-hooks; G. I. Buckets; Grease nipples and grease guns; Gun metal bushes; Hand and animal drawn carriage fittings; Hand stapling machines; House-hold knitting machines; Hurricane lanterns; Hydraulic Jacks below 30 tonnes capacity; Hypodermic needles; insecticide dusters and sprayers (manual); Machine screws (except for socket head and special type); Metal fittings for garments and leather goods; Oil stoves; Pressure cookers; Pressure die casting (upto 4 kg. Pressure gauges (upto 50 lbs. per square inch.); Rivets of all types; Rolling shutters; Safety pins and other similar products like paper pins, staple pins, hair pins, etc.; Sanitary fixtures (metallic only); Snap fasteners; Shoe grindery; Standard Wire; Steel furniture; Steel Measuring Tapes; Steel Wools; Students microscopes; Tin containers unprinted (other than O.T.S.); Tin Cutters; Umbrella ribs and fitting; Washers; Water meters; Weighing machines except for sophisticated items; Weights; Welded Wire mesh (except for expansion of existing units); Wire brushes and Fibre brushes; (Wire gauge and wire netting thicker than 100 mesh size; Wire products, such as wire nails, hob nails, panel pins, horse-shoe nails; Wood screws; fasteners (metallic only).

Electrical Industries : A. A. & A. C. S. R. Conductors (upto and including 19 strands); Battery Cell testers; Black Adhesive insulating tapes; Carbon brushes (manufactured from carbon black); Domestic Electrical appliances and accessories — electric iron, roasters, Washing machines, etc.; industrial washing and dry cleaning machines etc.; Electrical Wiring accessories; Electrical light fittings (such as chokes, starters, reflectors, etc.); Emergency lamps; Metal clad switches upto 30 Amps.; Miniature bulbs: (*a*) Miniature vacuum bulbs, (*b*) Torch bulbs, (*c*) Radio Panel bulbs, (*d*) Cycle Dynamo bulbs, (*e*) Decoration bulbs; PVC & VIR Wires of Domestic Type; Room Coolers (Desert Type); Voltage stabilizers — Domestic types.

Electronic Industries : Air trimmers; Amplifiers for entertainment and public address system; Assembly of loud speakers; Electronic flash guns; Hearing Aids; I. F. Transformers; Low cost radio receivers; Telescopic Aerials (for radio receivers); Transistor Radios.

Automobile Ancillary Industries : Ash trays; Auto leaf springs; Automobile radiators; Battery cables and fittings; Bulb horn; Electric horns; Electrical fuses; Electrical fuse boxes; Exhaust Mufflers; Fuel lines; Fuel tank caps; Horn buttons; Hub caps; Luggage carrier; Ornamental fittings; Rear view mirrors; Seats for buses and trucks; Side lamp assembly; Spot lamp Assembly; Spokes and nipples; Steering wheels; Stop lamp assembly; Sun shades; Sun visor; Tail lamp assembly; Tyre inflators (both hand and feet operated); Wind shield wipers (arms and blades only); Wiring harness.

Garage Equipment: Armature tester; Battery terminal lifters; Chamber testing equipment; Condensors and resistance testers; Feeder gauges; Feeler gauges; Flanging tools; Gear flushers; Puller of all types; Ring compressor; Ring expanders; Screw extractors; Spark plug tester and cleaners; Stud removers; Toe in gauges; Tube cutters; Tyre valve pull out tools; Valve lifters; Valve replacing and resetting tools.

Chemical Industries: Bichromates (except for exports); Calcium silicate; Cashew shell oil; Chlorinated Paraffin Wax; Dimethyl sulphate based on methyl alchohol; Dyes: (*a*) Dyes (directs and acids) (*b*) Basic dyes; Fire works; Formulated perfumery compounds; Laundry soap; Paints and various dry distempers, red oxide, blacks, graphite paints (all paste paints); Palmrosa oil; Para dichloro benzene balls; Pine oil (except for composite schemes); Plaster boards; Potasium silicate, Pyrazolone; Sodium silicate; Tooth Paste; Zinc oxide.

Glass and Ceramic Industries: Asbestos pipes and fittings (for household purposes according to ISI specifitions); Contact lenses; Glass hollow-ware by semi-automatic process; Graphite crucibles (upto 300 Nos.); Low tension insulators; Reinforced cement concrete pipes upto 100 G.M.; Roofing, flooring and glazed tiles (except plastic and ceramic tiles of sizes 4″ × 4″ and above); Thermometers (upto 150°C).

Leather Based Industries : Belt lacing; Leather footwear (except for expansion of the existing units for exports and new units for exports).

Plastic Based Industries : Flash light torch cases (Plastic); H. D. Polyethylene monofilament yarn; P.V.C. Foot-wear (chappals, sandals & shoes) except for export by predominantly export oriented units; Plastic Processed Products :—(1) Bottle caps, buttons, lamp shades etc. produced by the compression moulding technique; (2) Blow moulded containers and other similar products manufactured by the blow-moulding technique; (3) Manufacture of Polyester sheets for buttons; (4) Plastic articles manufactured from plastic sheets, rods or tubes by the fabrication techniques excluding the technique of vacuum forming; (5) Polyethelene Films (Films with a thickness of less than 0·10 mm) and products from the film such as coloured printed film and bags; (6) Spectacle frames from sheets by fabrication technique or by injection moulding.

Rubber Based Industries : Cycle tyres and tubes; Rubberised cloth; Surgical gloves (except plastic).

Wood Based Industries : Safety matches and Truck body building (wooden structure).

Miscellaneous : Absorbent cotton; Cotton measuring tapes; Sanitary napkins; Wood-wool slabs; Paper conversion products.

Registration : No licenses, either from the Central or from the State Governments, are required for starting a small unit, but they are subject to the rules and regulations framed by the State and local authorities under the Factories Act, Commercial Establishments Act, and Town Planning Act. Rules of the health and sanitation authorities are also applicable.

To get loans from commercial banks or State Financial Corporations, or for any other governmental assistance, it is essential that the unit be registered with the State Director of Industries.

Facilities : Following additional benefits can also be availed of if a unit is registered.

1. Assistance in obtaining controlled and imported raw material; 2. Electrical Power; 3. Accommodation in industrial estates; 4. Training facilities; 5. Supply of machinery on hire-purchase basis; 6. Accommodation in industrial centres; 7. Preference in Government purchase programmes; 8. Priority in telephone connections; 9. Assistance under State Aid to Industries Act; 10. Subsidy in rural, backward and hilly areas.

State Financial Corporations : (See Chapters on each State for names and addresses).

Specialised Services : Technical advisory service; workshop and laboratory services; economic services; management consultancy services; marketing advisory service, managerial and technical training service and other general services which are far too expensive to be privately obtained are given free by the Central Small Industries Organisation. (Now called Small Industries Development Organisation SIDO for Short.)

Addresses of the **Small Industries Service Institutes** are as follows :—

Andhra Pradesh : Survarna Vilas, No. 3-4-812; Barkatpura, Hyderabad 500027; **Assam:** Ind. Estate, P.O. Baminimaidan, Gauhati 781001; **Bihar :** Prasad Mansion, Rajendra Path, Patna 800001; **Gujarat :** Harsiddh Chambers, 4th Floor, Ashram Rd., Ahmedabad 380013; 1/5, Jaganath Plot, Rajkot 360001, (Branch Institute); **Jammu & Kashmir:** D-1. Gandhi Nagar, Jammu 180001, (Branch); **Kerala:** Krishna Vihar, Kerala Varma College Rd., Trichur 680004; **Madhya Pradesh :** 10, Ind. Estate, Polo Ground, Indore 452001; **Maharashtra :** Kurla-Andheri Rd., Saki Naka, Bombay 400072; **Mysore :** Rajaji Nagar, Bangalore, 560010; **Orissa :** Mahanadi Rd., Tulsi Para, Cuttack 753001; **Punjab :** Ind. Area, 'B', Ludhiana 141001; **Rajasthan:** Mirza Ismail Rd., Jaipur 302001; **Tamil Nadu:** 65/1, Grand Southern Trunk Rd., Madras-600032; **Uttar Pradesh:** 107, Ind. Estate, Kalpi Rd., Kanpur 208001; 121, M. Gandhi Rd., Agra 282001, (Branch); E-17/18, Ind. Estate, Naini, Allahabad 211001; **West Bengal :** 111 & 112, B.T. Rd., Calcutta 700035; **Delhi:** Okhla Industrial Estate, Okhla, New Delhi 110020; **Goa :** (Branch) Miranda Building, Margao 403601.

Magnitude of the Sector : The number of units estimated to be under SIDO programme in 1974 were 400,000. Registration (1972) with Directors of Industry stood at about 318,000 providing employment to 4·14 million people, producing goods worth Rs. 58,020 million and having an investment of Rs. 7,860 million.

Industrial Estates : Factories numbering 8,590 were working in 10,127 sheds (out of the 12,050 constructed by 31-3-1973) in 438 industrial estates which were functioning (out of the 585 sponsored). These had an annual production of Rs. 2,530 million giving employment to 130,540 people.

SPICES

INDIA has always been the traditional home of spices and has throughout history been associated with their trade. It was for spices that men from strange lands came to the shores of India and bartered their wares. Since then, spices figure in the country's exports.

Indian spices are of the finest quality and today the demand for them has considerably increased in all countries.

PEPPER

Pepper, known as the "King of Spices", is the most important foreign exchange earner. The Indian black pepper is considered to be superior in quality and fetches a better export price.

Pepper production in India accounts for 25 to 30 per cent of the total world production of about 100,000 tonnes and, more than 80 per cent of it is exported.

The State-wise break-up of area and production for the year 1973-74 is given in the chapter on 'Agriculture'.

Export of pepper during 1973-74 totalled 30,718 tonnes valued at Rs. 289·26 million.

Per hectare yield of pepper is about 220 kgs. The internal consumption of pepper in 1972-73 was 6,132 tonnes.

An annual production target of 38,000 tonnes has been fixed at the end of the Fifth Plan period. So far only 'whole' pepper was being exported. Of late, green pepper, pepper powder and pepper oleoresin have got demand in the importing countries.

CARDAMOM

Cardamom, known as the ' Queen of Spices" earns the second highest amount of foreign exchange. India exports about 90 per cent of the world output.

The state-wise break-up of area and production for 1973–74 is as follows :

State	Area ('000 hectares)	Production ('000 tonnes)
Kerala	47·50	1·30
Karnataka	23·60	1·20
Tamil Nadu	5·40	0·40
Total ..	76·50	2·90

Exports during 1971–72 amounted to 2,225 tonnes valued at Rs. 81·97 million; in 1972–73 to 1,451 tonnes valued at Rs. 69·48 million and in 1973–74 to 1,800 tonnes valued at Rs. 110·09 million.

Per hectare yield of cardamom is about 40 kgs.

GINGER

India is the leading ginger producing country and accounts for about 50 per cent of dry ginger output in the world.

Area and Production of Ginger during 1973-74 is given in the chapter on 'Agriculture'.

By exporting 5,066 tonnes of ginger, India earned foreign exchange worth Rs. 25·07 million during 1973-74.

Besides dry ginger, giner oleoresin and ginger oil are also exported at present.

Per hectare yield of ginger is about 1,439 kgs. The internal consumption of ginger in 1972-73 was 27,032 tonnes which included the import of 162 tonnes.

High cost of production in India is a major bottle neck in ginger export.

CHILLIES

The cultivation of chillies is widely scattered throughout the country. Its annual consumption varies from region to region, ranging from about 3·5 kgs. per adult in Andhra Pradesh to around 5 kgs. per adult in Maharashtra. In Punjab, Bihar, U.P. and Orissa consumption is lower. The state-wise break-up of area and production for the year 1973-74 is given in the chapter on 'Agriculture'.

Through exports of 368 tonnes of chillies the country earned foreign exchange worth Rs. 2·47 million during 1973–74.

Per hectare yield of chillies is about 602 kgs. The internal consumption of chillies in 1972–73 was 407,219 tonnes.

TURMERIC

The major turmeric growing States in India are Andhra Pradesh, Maharashtra, Bihar, Tamil Nadu and Orissa. The state-wise break-up of area and production of turmeric during 1973-74 is given in the chapter on 'Agriculture'.

Turmeric has surpassed chillies in the spices trade by becoming the third largest foreign exchange earner.

The exports of turmeric during 1973-74 amounted to 7,192 tonnes and fetched Rs. 33·20 million by way of foreign exchange.

Per hectare yield of turmeric is about 2,041 kgs. The internal consumption of turmeric in 1972-73 was 132,944 tonnes which included the imports of 75 tonnes.

OTHER SPICES :

Other items of spices which are exported from India are coriander seed, celery seed, fenugreek, ani seed, cassia, cumin, curry powder, fennel seed, garlic and bay leaf. Besides whole spices, oil of celery, ajowan, cardamom, giner, pepper, ani-seed, cinnamon, garlic and oleoresin of capsicum, ginger, pepper and fenugreek are also produced in India.

EXPORTS

India's spices exports have increased from Rs. 166 million in 1960-61 to Rs. 524·65 million in 1973-74.

The following quantities of oleoresins of pepper, capsicum, ginger and fenugreek were exported during 1972–73.

Countries	Quantity in Kgs.	Value in Rs.
Australia	96	7,419
France	102	7,152
Israel	155	11,743
Japan	255	23,252
U.K.	3,852	146,429
Norway	200	4,424
U.S.A.	46,461	2,817,166
Total ..	51,121	3,017,585

Export Targets

(Quantity in Tonnes)

Year	Pepper	Ginger	Chillies	Turmeric
1975 ..	31,000	8,000	6,000	13,000
1980 ..	34,000	9,000	7,000	15,000
1985 ..	37,000	10,000	8,000	17,000

Export Duty : An export duty of Rs. 1·25 per kg. is being levied on export of Pepper.

Spices Export Promotion Council, World Trade Centre, Ernakulam, Cochin-682016, Kerala.

IMPORTS

Spices worth Rs. 8·25 million were imported into India during 1972–73 as against Rs. 8·75 million during 1971–72.

GENERAL

Grading of spice commodities according to Agmark specifications has been made compulsory under the Sea Customs Act for export trade.

Regulated Markets : With a view to preventing exploitation of producers and getting better prices for their produce, several markets have been regulated under Agricultural Produce Market Act. About 644 markets for chillies, 331 markets for turmeric, 283 for garlic, 129 for giner, 183 for cumin and 345 for other spices have already been regulated in different States of India.

Research : The research work on spices is being carried out at the *Central Plantation Crops Research Institute* (I.C.A.R.) Kasaragod and its Regional and Sub-stations.

Development: The Central Government has constituted an **Indian Spices Development Council** consisting of Government officials and non-officials representing the growers and the traders. It reviews the work of development already in progress and recommends further development programmes. These programmes are implemented through the **Directorate of Arecanut & Spices Development** functioning at 1/500, Cannanore Road, Calicut 673005, Kerala.

A world pepper community has been formed with India, Indonesia and Malaysia, the major producing countries, as members.

FIFTH FIVE YEAR PLAN

Adoption of intensive cultivation practices such as proper manuring, plant protection, irrigation etc., increase in area and adoption of high yielding improved varieties are some of the measures proposed for the development of spices. For the development of tree spices (clove and nutmeg) in which the country is not self-sufficient schemes for production and distribution of seedlings have been proposed.

Publications : (1) 'Spices Newsletter' (Monthly) brought out by the Spices Export Promotion Council. (2) 'Arecanut and Spices' (Quarterly Bulletin), Directorate of Arecanut and Spices Development, Calicut 673005, Kerala.

STEEL INDUSTRY

BRIEF HISTORY

ALTHOUGH India occupied a pre-eminent position in iron and steel making in the ancient world, the industry on modern lines is only sixty years old. It came into existence with the launching of the Tata Iron and Steel Works at Jamshedpur, Bihar in 1907. Before this, a number of attempts were made in different parts of India to start the industry by both private companies and the Government, but none of these was even moderately successful.

The Jamshedpur steel works went into operation by stages in 1911-12. In 1919 Indian Iron and Steel Company established a unit near Asansol, West Bengal. Meanwhile the first unit in the public sector was put up in Karnataka on the banks of river Bhadra. Production in Mysore Iron and Steel Works began in 1923.

Upto the end of Second World War these three were the only main units in India producing 1·7 million tonnes of pig iron and a million tonnes of steel ingots annually.

Holding Company. The Steel Authority of India Ltd. was set up under the Companies Act on 24th January, 1973, to provide co-ordinated development of both the private and the public sectors.

In August, 1973, SAIL set about restructuring the management of all its subsidiaries so that each unit would have its own board of management with more autonomy.

Expansion Programmes : Because of financial and material constraints the expansion programme during the Fifth Plan was expected to be less ambitious. Major contribution to additional production would come from the expansion of the Bhilai and Bokaro plants.

During the Fifth Plan period Bhilai would be expanded from 2·5 to 4 million tonnes and Bokaro from 1·7 to 4·75 million tonnes.

By 1978-79 the demand for finished steel is likely to be about 10 million tonnes which would be met by the expansions in the present integrated plants and production for electric furnaces.

Private Sector

Tata Iron and Steel Company Ltd. (Head Office: Bombay House, Bruce Street, Bombay 400001) produces a variety of semi-finished and finished steel items like blooms, billets, tin bars, skelp, rails, structurals, plates and sheets.

The feasibility report submitted by Nippon Steel Corporation of Japan estimates the cost of expanding the Company's capacity from 2 million tonnes a year to 5 million tonnes a year would be about Rs. 18,000 million. The proposal is being considered by a Union Government Steering Committee.

The expansion cost includes the cost of developing the company's ore mines and collieries, power generating capacity and a large raw material bleeding and blending yard at Jamshedpur.

Indian Iron & Steel Company Ltd., (Head Office: 12, Mission Row, Calcutta 700001) has a rated capacity of one million tonnes of steel ingots. It manufactures billets, bars, rods, rails, structurals and sheets.

The decline in the production forced the Government to take over management for two years from 14th July, 1972.

The production figures for December, 1974 were : 75,000 tonnes hot metal ; 53,000 tonnes ingot steel ; 42,000 tonnes saleable steel.

Public Sector

Besides the steel plants at **Bhilai** (Madhya Pradesh), **Rourkela** (Orissa) and **Durgapur** (West Bengal) which come under Hindustan Steel Limited there is the **Bokaro Steel Ltd.** in Bihar which is being constructed with the help of the Government of USSR since 1966. The agreement was signed on January 25, 1965. The first blast furnace complex was commissioned on October 3, 1972. Upto the end of February 1973, 240,157 tonnes of pig iron has been produced. The entire complex is expected to be completed by 1977-78.

The hot strip mill of the Bokaro plant was to be commissioned in June, 1975. The capacity will be 3·365 million tonnes a year at the four million tonne stage of the plant.

There is also the **Mysore Iron and Steel Ltd.** at Bhadravati, Karnataka.

New Steel Plants : The Salem Steel Plant is estimated to cost Rs. 5,180 million according to the Consulting Engineers, Messrs. M. N. Dastur & Co. A Committee is studying the report and would make its recommendations to the Steel Authority of India. 3,704 acres of land had already been acquired and production in the first phase is expected to begin by December, 1978.

Investment decisions on the other two plants — Visakhapatnam (Andhra Pradesh), and Vijaynagar (Karnataka — is expected to be taken after a thorough study of plant capacity, product-mix and capital and operation costs. Production in these plants is expected to begin early in the Sixth Plan. A Rs. 150 million plant for making steel from basic iron ore is being built in Chandrapur, Chanda Dist., Maharashtra. The plant is expected to begin production in June, 1976.

PRODUCTION

Production of saleable steel during 12 months ended March 31, 1975, reached 4·89 million tonnes.

The 1974-75 production showed an increase of 540,000 tonnes over 1973-74, representing an increase of 12·4 per cent.

(In million tonnes of ingot steel)

	Rated Capacity	1972-73 Production	1972-73 % of full rated capacity
1. Hindustan Steel Ltd.			
Bhilai Steel Plant ..	2·5	2·108	84·3
Rourkela Steel Plant ..	1·8	1·117	65·3
Durgapur Steel Plant ..	1·6	0·723	45·1
TOTAL ..	5·9	4·008	67·9
2. Tata Iron & Steel Co. Ltd.	2·0	1·690	84·5
3. Indian Iron & Steel Co. Ltd.	1·0	0·431	43·1
GRAND TOTAL ..	8·9	6·129	68·8

Production of Saleable Pig Iron (in '000 tonnes)

Year	Bhilai	Durgapur	Rourkela	TISCO	IISCO	Total	MISL	Bokaro	Others	Grand
1970-71	554	330	96	1	253	1,234	30	—	56	1,320
1971-72	476	269	127	2	211	1,085	54	—	91	1,230
1972-73	550	279	70	2	72	973	41	308*	93	1,415

* Oct. 1972-March 1973.

Production of Finished Steel — Producer-wise

(In '000 tonnes)

Year	Bhilai	Durgapur	Rourkela	TISCO	IISCO	MISL	Others	Total
1970-71 ..	1,215	337	593	983	464	24	1,272	4,888
1971-72 ..	1,030	337	561	1,002	449	44	1,538	4,961
1972-73 ..	1,537	359	715	1,460	293	54	1,638	5,513

Production of Finished Steel — Category-wise

(In '000 tonnes)

Category	1970-71	1971-72	1972-73
Lt. & Med. Structurals ..	641·7	512·0	628·1
Heavy Structurals ..	238·3	192·9	207·1
Heavy Rails			
(*i*) 1st Class	243·7	259·7	269·2
(*ii*) 2nd Class	145·4	109·6	53·5
Light Rails	5·5	6·4	3·9
Black Sheet (Corr.) ..	—	0·7	0·3
B.P. Sheets			
(*i*) Hot Rolled ..	212·4	219·1	194·1
(*ii*) Cold Rolled ..	85·2	96·1	96·2
G.P. Sheets	72·9	57·7	70·6
G.C. Sheets	117·2	108·9	92·9
Plates	271·4	274·9	310·3
Bars	1,055·7	1,153·8	1,391·7
Rods	517·6	562·8	708·6
Wires			
(*i*) Black	48·5	81·2	98·3
(*ii*) Galvd.	34·8	52·1	58·8
(*iii*) Others	52·3	90·9	84·2
Hoops Strips			
(*i*) Hot Rolled ..	91·6	105·6	175·9
(*ii*) Cold Rolled ..	100·1	102·5	100·5
Box Strappings	6·7	5·1	3·0
Steel Sleepers	58·8	67·7	55·9
Tinplates	133·4	114·5	115·6
Skelp	242·6	232·7	244·0
Wheels, Tyres & Axles ..	37·5	32·0	30·4
Special Sections	57·5	75·4	79·2
Tool, Alloy and Special Steels	410·9	438·5	432·9
TOTAL	4,888·3	4,961·0	5,513·4

Production of Tool Alloy and Special Steel

(in tonnes)

	1971-72	1972-73
Canara Workshops Ltd., Mysore ..	2,834	2,097
Firth Sterling Steel Co. of India Ltd., Maharashtra	985	951
Globe Motors (P) Ltd., New Delhi	4,306	12,866
Guest Keen, Williams Ltd., W. Bengal	35,095	38,234
Alloy Steel Project, Durgapur ..	35,006	35,851
Hindustan Steel Ltd.	94,530	99,792
Indian Iron & Steel Co., W. Bengal	Nil	N.A.
Lasco Steel Ltd., Madras	85	Nil
Mahindra Ugine Steel Co. Ltd., Maharashtra	32,561	28,391
Mysore Iron & Steel Ltd., Mysore ..	52,052	41,184
Singh Engg. Works Ltd. (U.P.) ..	—	N.A.
Tata Iron & Steel Co. Ltd., Bihar ..	173,698	161,592
J.K. Iron & Steel Co. Ltd., Kanpur	78	N.A.
Krishna Steel Ind. (P) Ltd., Bombay	Nil	Nil
Mukund Iron & Steel Works Ltd., Bombay	2,939	2,580
The National Iron & Steel Co. Ltd., Calcutta	159	300
Textool Co. Ltd., Coimbatore ..	395	398
Himmat Steel Foundry (M.P.) ..	1,769	N.A.
Upper India Steel, Punjab ..	2,043	6,125
TOTAL	438,535	430,361

EXPORTS

Exports of iron and steel during 1974-75 reached 2·31 million tonnes valued at Rs. 234 million. Further commitments likely to be executed by March, 1975 would be 123,000 tonnes valued at Rs. 144 million.

The countries to which exports were made were : Iran, Dubai, Muscat, Abudabi, Kuwait, Bahrain, Doha, Kenya, Sri Lanka and Bangladesh.

IMPORTS

During April/September 1974, about 430,000 tonnes of mild steel, 71,066 tonnes of high carbon steel and 30,105 tonnes of alloy steel totally valued at Rs. 1,600 million were imported.

Imports during the remaining six months October/March 1975 were expected to be less.

The countries from which imports were made were : Japan, United Kingdom, U.S.S.R., Belgium, West Germany, Bulgaria, Hungary and Czechoslovakia.

SUGAR INDUSTRY

BRIEF HISTORY

SUGAR manufacture in India got a spurt after the Government granted it protection in 1932. From dependence on imports the country became self-sufficient within four years thereafter.

In 1931-32 there were an estimated 32 working units. By 1935-36 the number rose to 130. The volume of sugar production which was 162,000 tonnes in 1931-32 increased to 947,000 tonnes by 1935-36.

During all the Plan periods the industry exceeded the targets fixed. There was a seasonal setback, however, in 1966-67 when production dropped sharply because large tracts of cane had withered in the drought conditions that hit most sugar producing States.

The Government had introduced partial decontrol of sugar in 1967-68.

It is the second largest industry second only to textiles.

LOCATION OF THE INDUSTRY : Area under sugarcane cultivation in major producing states in 1973-74 was as follows : (in '000 hectares) Andhra Pradesh : 153·5; Bihar : 148·0; Haryana : 150·0; Karnataka : 109·1; Maharashtra : 161·1; Punjab : 112·0; Tamil Nadu : 149·1; Uttar Pradesh : 1,472·7; Total All India : 2,722·4.

State-wise break-up of the sugar factories in 1973-74 given in brackets :

Andhra Pradesh (17); Assam (1); Bihar (26); Goa (1); Gujarat (8); Haryana (3); Karnataka (15); Kerala (3); Madhya Pradesh (6); Maharashtra (45); Nagaland (1); Orissa (3); Pondicherry (1); Punjab (6); Rajasthan (3); Tamil Nadu (15); Uttar Pradesh (74); West Bengal (1); Total (230).

The total installed capacity in 1972-73 season was 4·15 million tonnes.

Public Sector : Up to the end of 1970 there were no factories in the public sector. The Government of Uttar Pradesh had been considering the nationalisation of the Industry in that State but no further action had been taken in the matter till the end of 1971. The U.P. Vidhan Sabha had on August 16, 1971, passed the Sugar Undertakings Acquisition Bill under which the State government acquired 12 "sick" mills of which 7 were subsequently returned to the owners.

No. of Persons Employed : The Industry employs about 250,000 workers and about 25 million agriculturists are connected with it. The annual wage bill works out to about Rs. 700 million.

Capital Investment : A total of about Rs. 6,000 million is invested in this industry.

PRODUCTION AND CONSUMPTION : Comparative figures of production and consumption of sugar for the last three years are :

(In million tonnes)

	1971-72	1972-73	1973-74*
Production	3·10	3·87	3·96
Consumption	3·80	3·51	3·50

* Estimated.

State-wise Production of sugar for the year 1972-73 and estimates for 1973-74 was as follows (figures in tonnes) :

Andhra Pradesh : 254,824 and 282,739; Assam : 4,420 and 6,661; Bihar : 215,714 and 222,905; Gujarat : 97,837 and 141,199; Haryana : 72,454 and 90,705; Karnataka 242,268 and 285,644; Kerala : 15,672 and 20,926; Madhya Pradesh : 21,177 and 28,361; Maharashtra : 1,002,061 and 1,075,367; Orissa : 6,610 and 5,381; Pondicherry : 22,620 and 18,515; Punjab : 31,243 and 41,574; Rajasthan : 7,843 and 15,581; Tamil Nadu : 299,623 and 332,403; Uttar Pradesh : 831,180 and 1,339,219 West U.P. : 304,862 and 464,275; East U.P. 215,750 and 345,789; Central U.P. : 310,568 and 529,155); West Bengal : 659 and 3,793.

Sugar-cane and Gur: State-wise production of sugarcane and also in terms of gur ('000 tonnes) respectively for 1972-73 was as follows :—

Andhra Pradesh : 9,209·2; 1,028·7; Bihar : 4,753·2 : 475·3; Haryana : 6,000·0; 600·0; Maharashtra : 11,917·7; 1,391·3; Punjab : 4,840; 484·0; Uttar Pradesh : 58,743·4; 5,874·3; Total (All India) : 123,967·9; 12,639·2.

(For 1973-74 figures please refer to the chapter on Agriculture).

Main By-products: Production of the two main byproducts over the last three years is given below.

(In million tonnes)

Year	Molasses	Bagasse
1971-72	1·21	9·90
1972-73	1·70	12·64
1973-74	1·77*	13·26*

* Estimated.

There are about 88 distilleries in the country with an annual installed production capacity of 95·2 million gallons. There are also 7 paper factories which supplement their raw material with bagasse.

Per Capita Consumption : Per capita consumption of sugar in India and abroad during the years 1969 to 1971 (latest available) :

(Figures in kgs.)

Country	1970	1971	1972
India	6·9	8·1	7·0
Sri Lanka	25·2	23·3	NA
Japan	29·0	28·5	30·4
Indonesia	7·0	7·1	7·4
Malaysia	39·9	36·5	32·0
Pakistan	4·8	4·9	10·8
Asia	8·1	8·6	8·5
Europe	39·3	39·2	40·0
N. America	50·0	50·0	49·9
C. America	39·0	38·0	37·6
S. America	34·5	37·0	38·7
Africa	12·0	12·3	12·5
World Average	19·9	20·2	20·3

EXPORTS: India first entered the world market as an exporter in 1957. Since then the industry has become a major foreign exchange earner. In the year 1970-71 Government decided to export the full quota of 325,000 tonnes under the International Sugar Agreement and NPQ quota. However, in 1971-72, due to decline in sugar production, the export was restricted to 100,000 tonnes under the NPQ and U.S. quota.

The Sugar production picked up in 1972-73 and so did the export prices. Taking the advantage, the Government exported, during the calendar year 1973, about 248,000 tonnes of Sugar earning foreign exchange worth Rs. 422 million. During the year 1974, 500,000 tonnes of sugar were exported earning an estimated foreign exchange worth Rs. 3,000 million, highest earned by any single commodity.

The figures for exports over the last four years are as follows :

1970-71 : 325,000 tonnes ; 1971-72 : 100,000 tonnes ; 1972-73 : 248,000 tonnes and 1973-74 (Estimated) : 500,000 tonnes.

GENERAL: On 25th May, 1971 Government decontrolled the sugar. However, a partial control was reimposed with effect from 1st July, 1972, the proportion between levy and free being 60 : 40. However for the season 1972-73 Government reduced the share of free sugar to 30 leaving the balance 70 per cent for levy. The same position was maintained for the season 1973-74.

Training : The Sugar Industry gives practical training facilities to students of sugar technology and also trains a number of apprentices, as required under the Apprentices Act.

National Sugar Institute at Grand Trunk Rd., Kanpur 208001, Uttar Pradesh conducts courses in sugar technology, besides many other agricultural universities which have this as a subsidiary subject.

Research is coducted at the **Sugar-cane Research Institute** at Anakapalle, Andhra Pradesh and at the **Institute of Sugar-cane Research,** Lucknow, Uttar Pradesh.

National Federation of Co-operative Sugar Factories Ltd., L-8, South Extension Part II, New Delhi 110 049 was set up in December 1960, with the object of co-ordinating and facilitating the working of co-operative sugar factories, State and zonal federations and to assist in the promotion of new co-operative sugar factories.

So far, licences/letters of intent have been issued for establishment of 174 co-operative sugar factories. Of these 91 sugar factories are in operation. Others are in various stages of establishment. In the year 1973-74, the co-operative sugar factories produced 1·55 million tonnes of sugar which was 39·4 per cent of the total production in the country in that year.

Ten Largest Units

Name	Address	Capacity (in tonnes)
The Nizam Sugar Factory Ltd.	Shakarnagar, Nizamabad, A. P.	4,250
Saraswati Sugar Mills	Yamunanagar, Haryana	4,000
Shree Panchaganga Sahakari Sakhar Karkhana Ltd.	Ichalkaranji, Maharashtra	4,000
Mawana Sugar Works	Mawana, Meerut, Uttar Pradesh	3,810
The Upper Doab Sugar Mills Ltd.	Shamli, Muzaffarnagar, Uttar Pradesh	3,810
The K. C. P. Sugar Factory Ltd.	Vuyyuru Krishna, Andhra Pradesh	3,750
The Hindustan Sugar Mills Ltd.	Golagokarnnath, Kheri, U. Pradesh	3,660
Upper Ganges Sugar Mills Ltd.	Seohara, Bijnor, Uttar Pradesh	3,600
Shetkari Sahakhari Sakhar Karkhana Ltd.	Sangli, Maharashtra	3,500
The Rahuri Sahakari Sakhar Karkhana Ltd.	Rahuri Maharashtra	3,250

Publications : 'Shakara', a quarterly bulletin brought out by the National Sugar Institute.

The Indian Sugar Mills Association, A-7, NDSE, Co-operative Colony, South Extn. Part-1, Ring Rd., New Delhi 110 049, brings out the following publications: (1) Indian Sugar : Monthly Magazine ; (2) Indian Sugar Yearbook : Annual Publication ; (3) List of Sugar Mills in India and Pakistan : Annual Publication.

The National Federation of Co-operative Sugar Factories Ltd., also brings out the following publications : (1) Co-operative Sugar. (2) Co-operative Directory and Year Book.

TEA INDUSTRY

BRIEF HISTORY

CHINA is believed to be the original home of the tea plant where it was first introduced as a medicine.

In 1823 the tea plant was discovered growing wild in Assam. It was then that China lost its monopoly of tea trade. The East India Company sent the first shipment of eight chests of Assam tea which were sold in London in May, 1834.

LOCATION OF THE INDUSTRY

The two main tea-growing regions in India are North-East India and South India the break up of which is given in Table I.

There were 571 tea companies during 1971-72.

No. of Persons Employed: The estimated daily average labour employed during 1971 (provisional) was as follows : Total North India : 614,821 ; Total South India : 151,772 ; Total All India : 766,593.

PRODUCTION

India's tea production is the largest in the world. Table II gives the State-wise break-up of the production.

Table I

States	Area in hectares as on		No. of tea gardens as on 31st March	
	31·3·72	31·3·73*	1971	1972*
Assam	184,244	186,099	750	753
West Bengal	88,556	88,617	296	293
Bihar	459	459	3	3
Tripura	5,446	5,463	53	55
Uttar Pradesh	1,818	1,810	30	31
Himachal Pradesh	4,183	4,183	1,385	1,385
Total North India	284,706	286,631	2,517	2,520
Tamil Nadu	34,748	35,022	6,450	6,463
Karnataka	1,873	1,865	16	16
Kerala	37,348	37,144	3,032	4,000
Total South India	73,969	74,031	9,498	10,470
Total All India :	358,675	360,662	12,015	12,999

* Provisional.

Table II (In '000 kgs.)

State	1971	1972	1973*
Assam	223,665	239,206	251,825
West Bengal	104,087	108,576	110,489
Bihar	41	23	23
Tripura	2,961	3,011	3,857
Uttar Pradesh	690	613	840
Himachal Pradesh	888	1,258	1,127
Total North India	332,331	352,687	368,161
Tamil Nadu	57,531	55,099	56,020
Karnataka	2,877	3,307	2,873
Kerala	42,729	44,903	44,488
Total South India	103,137	103,309	103,791
Total All India:	435,468	455,996	471,952

* Provisional.

During January-September 1974, the tea crop harvested in North India totalled 2,808 million kgs. This was 14·7 million kgs. higher than the same period in 1973, while the crop harvested in South India during January-September 1974 was less by 1·3 million kgs. at 70·3 million kgs.

The estimated production of tea for the year 1974 is 486 million kgs. while the projected estimate for the year 1975 is 500 million kgs.

There are 26 countries in the **world** which produce tea. **Production** of tea in selected principal producing countries is given in the table below:

(In '000 kgs.)

Country	1971	1972	1973*
India	435,468	455,996	471,952
Sri Lanka	217,773	213,475	211,271
Indonesia	48,207	49,777	50,000
Kenya	36,290	53,322	56,578
Bangladesh	12,449	23,836	27,579
Uganda	17,966	23,376	21,149
Malawi	18,615	20,682	23,353
Mozambique	16,536	18,678	20,000
China	173,000	n.a.	n.a.
Japan	92,911	94,832	95,000
Turkey	32,260	46,500	45,000
Taiwan	26,924	26,229	27,000
U.S.S.R.	68,000	70,000	70,000
Argentina	27,510	24,000	23,000

Note : * Provisional. n.a. : Not Available.

The **total world production** of tea : 1969 : 1,052 m. kgs. ; 1970 : 1,098 m. kgs. ; 1971 : 1,287 m. kgs. ; 1972 : 1,362 m. kgs. ; 1973 (Provisional) : 1,385 m. kgs.

CONSUMPTION

The estimated consumption of tea in India : 1969-70 : 203·3 m. kgs. ; 1970–71 : 213·0 m. kgs. ; 1971-72 : 220·6 m. kgs. ; 1972–73 (Provisional) : 231·0 m. kgs.

Per Capita Consumption of Tea in Selected Countries :

Countries	1969-71		1970-72	
	Total in '000 tonnes	P.hd. in kgs.	Total in '000 tonnes	P.hd. in kgs.
United Kingdom	215·38	3·88	212·41	3·81
France	3·37	0·07	3·66	0·07
West Germany	8·83	0·14	9·10	0·15
Ireland	11·41	3·88	11·95	4·02
U.S.S.R.	87·13	0·36	97·83	0·40
Canada	20·05	0·04	20·34	0·94
U.S.A.	68·27	0·33	70·05	0·34
Iraq	20·79	2·20	20·45	2·10
Jordon	2·89	1·25	2·63	1·11
Morocco	14·84	0·96	13·15	0·86
Tunisia	4·56	0·89	4·97	0·95
Australia	26·84	2·15	26·59	2·08
New Zealand	7·34	2·61	7·59	2·66
India	212·77	0·40	216·80	0·41
Sri Lanka	18·85	1·51	19·29	1·51
Japan	103·42	1·00	107·53	1·02

According to an estimate the total world supply of tea in 1972 was 991 m. kgs. and the consumption was 964 m. kgs.

EXPORTS

Tea is the second largest foreign exchange earner of the country. India exports tea to over twenty different countries of the world of which United Kingdom buys almost half of the total exports. U.S.S.R., U.A.R. and Afghanistan are some of the other big buyers of Indian tea.

Quantity and Value of Tea Exported to Selected Countries

Selected Countries	1972*		1973*	
	Q	V	Q	V
U.K.	57,213	434·0	46,306	326·9
U.S.S.R.	41,524	342·4	36,799	318·5
Sudan	14,344	98·0	11,390	76·1
U.A.R.	12,876	82·6	12,161	77·8
Afghanistan	9,941	65·9	11,330	81·1
U.S.A.	7,070	52·0	7,435	56·8
Irish Republic	5,957	45·6	4,302	33·5
Australia	3,150	21·3	3,098	20·2
Canada	2,883	20·4	2,239	16·5
Total for all countries	207,445	1,565·9	183,439	1,398·2

Q — Quantity in '000 kgs. V — Value in Rs. million.
* Subject to revision. *Source :* Tea Board Statistics.

Export of tea during 1974 was to the order of 217 million kgs. valued at Rs. 1,900 million. The export of tea in 1975 is expected to touch about 225 million kgs. worth Rs. 2,100 million.

Export Promotion : Name and Address of Tea Councils entrusted with the promotion of Indian tea.

1. *The Council of U.S.A. Inc.*, 230, Park Avenue, New York City, U.S.A. 2. *Comite Francais Du The*, 4 Avenue de la Bourdonnais, Paris, 7, France. 3. *The Gessellschaft fur Teewerbung, M.B.H.* Hamburg 1, Steindamm 9, Federal Republic of Germany. 4. *The Tea Council of U.K.*, 4/5, Copthall Court, London, E.C.4. U.K. 5. *Tea Council of Australia*, 44, Martin Place, G.P.O. Box 1949, Sydney, Australia. 6. *Tea Council at New Zealand*, Fourth Floor, Achilles House, 47, Customs Street East, P.O. Box No. 844, Auckand CI, New Zealand. 7. *Tea Council at Canada*, 42, Charles Street, East, Toronto 5, Ontario, Canada. 8. *Tea Council at Ireland Ltd.*, 85, Harcourt Street, Dublin. 2. Ireland.

GENERAL

The average yield per hectare even in the best tea gardens in India is only about half of 8,000 pounds (3628·73 kgs.) per hectare obtained in some leading tea producing countries.

Average Yield Per Hectare of Tea in India

(In kgs.)

States	1971	1972	1973*
Assam ..	1,227	1,298	1,353
West Bengal ..	1,176	1,175	1,247
Bihar	89	50	50
Tripura ..	544	553	706
Uttar Pradesh	380	337	464
H.P. (Kangra & Mandi) ..	212	301	269
North India ..	1,175	1,239	1,284
Tamil Nadu ..	1,661	1,586	1,600
Karnataka ..	1,539	1,766	1,540
Kerala ..	1,146	1,202	1,198
South India ..	1,398	1,397	1,402
Total All India	1,221	1,271	1,309

Note : * Provisional.

Auction Centres : Indian tea is sold through auction centres at Calcutta and Cochin, which are also the major ports for export of tea where nearly 160 m. kgs. and 60 m. kgs. of tea respectively is sold annually. Tea is sold at these two auctions under competitive conditions and buyers from all countries of the world participate either directly or through their agents.

A new auction centre was started at Gauhati, Assam, from September, 1970.

About 70 to 75 m. kgs. of Indian tea is sold through the London auction centre, major portion of which is meant for consumption in the U. K.

The Central Government earns about Rs. 320 million annually on tea through the customs and central excise.

Instant Tea : The production of instant tea in India is from green leaf rather than from manufactured black tea, as is the practice in the U.S.A. It is manufactured in India by Tata Finlay Ltd. and Food Specialities Ltd. exclusively for exports.

Production of Instant Tea in Kgs. : 1970 : 316,594; 1971 : 254,307 ; 1972 : 237,932 ; 1973 : 214,508 (Provisional).

Export of Instant Tea during 1970 to 1973

	Quantity (in kgs.)	Value (in Rs.)
1970	318,724	10,500,454
1971	232,060	7,591,369
1972	230,796	7,123,929
1973	242,622	7,605,113

Research : The Toklai Experimental station in Assam is considered to be one of the largest research establishments in the world dedicated entirely to tea. **The United Planters' Association of Southern India** (address : Coonoor, Tamil Nadu) has its own tea experimental station in Nilgiri Hills. Facilities for tea research in south India are at the Central Laboratory and Field Station in the Anamallis and a sub-station in Kerala. The scientific problems of the tea industry in the Kangra Valley are looked into by a Tea Experimental Farm located at Palampur. All these tea research establishments in India receive substantial financial assistance from the Government through the **Tea Board of India** (address : 14, Brabourne Road, Calcutta-700001) which also maintains a close liaison with these institutions. The Tea Board also sponsors and finances independent research projects at different Universities and technical institutions to supplement the work of the various tea research establishments in the country.

Assam Tea Corporation : A state-owned corporation was formed in 1971 to buy up a number of sick tea gardens and to make them financially viable again.

Some Top-most Tea Producing Estates

1. **Beesaxopie T.E.;** P.O. Doom Dooma, Dt. Lakhimpur, Assam ; 2. **Samdang T.E. ;** P.O. Doom Dooma, Dt. Lakhimpur, Assam ; 3. **Hattigor T.E. ;** P.O. Hattigarh, Dt. Darrang, Assam ; 4. **Craigmore T.E. ;** P.O. Kulla Kamby, Dt. Nilgiri, Tamil Nadu ; 5. **Beech T.E. ;** P.O. Beech, Dt. Jalpaiguri, West Bengal ; 6. **Satali T.E. ;** P.O. Hasimara, Dt. Jalpaiguri, West Bengal ; 7. **Dheodam T.E. ;** P.O. Barahapjan, Dt. Lakhimpur, Assam ; 8. **Dewan T.E. ;** P.O. Dewan, Dt. Cachar, Assam ; 9. **Budla Beta T.E. ;** P.O. Doom Dooma, Dt. Lakhimpur, Assam ; 10. **Monabarrie T.E. ;** P.O. Borgang, Dt. Darrang, West Bengal.

FIFTH FIVE YEAR PLAN

As against the annual target of 1 per cent growth rate, the achievement has been only between 0·5 to 0·8 per cent in the last two decades, with the result the fourth plan production target of 460 m. Kgs. was not achieved.

Originally it was planned to increase tea exports to 256 m. Kgs. by 1978-79, but according to the present indications, the fourth plan target of 225 to 250 m. Kgs. of exports may not be achieved.

TOBACCO INDUSTRY

BRIEF HISTORY

ALTHOUGH the official history of the development of tobacco on commercial scale in this country dates back to the advent of the Portuguese in the early 17th century, large number of references to tobacco in Puranic tales and the Ayurveda show that tobacco was known to India from times immemorial.

The black porous soil in certain parts of east India, throughout the Coromandel coast, particularly Guntur, East and West Godavari and Prakasam districts of

Andhra are considered to be favourable to the growth of quality grades of tobacco.

LOCATION OF THE INDUSTRY: The table below gives the area under tobacco cultivation in the important tobacco growing States for the last three years.

Area in thousand hectares.

States	1970-71	1971-72	1972-73
Andhra Pradesh	222·1	238·1	212·3
Bihar	13·5	12·5	13·3
Gujarat	86·9	85·6	87·2
Karnataka	42·8	39·6	37·0
Maharashtra	13·2	13·2	10·6
Orissa	14·2	14·0	15·0
Tamil Nadu	14·6	10·8	12·5
Uttar Pradesh	10·9	11·2	12·4
West Bengal	11·1	12·1	13·1
Total All India (Including other States)	446·9	458·3	433·9

Source: Directorate of Economics & Statistics, Government of India.

The present total number of cigarette factories in the private sector is 17, of which 6 are in Maharashtra, 3 in Andhra Pradesh, 2 each in West Bengal and Uttar Pradesh and 1 each in Karnataka, Bihar, Madhya Pradesh and Gujarat. Recently letters of intent have been issued to set up 6 new cigarette factories. The cigar industry is concentrated in Tamil Nadu, whilst the production of bidis is a cottage industry on a country-wide basis.

There are about 19 *zerda* (chewing tobacco) manufacturing factories and 3 snuff factories in the country situated mostly in Tamil Nadu and Uttar Pradesh.

Public Sector: The State Industrial Development Corporations of Assam, Haryana, Jammu and Kashmir, Kerala and Tamil Nadu have each been issued a letter of intent to set up a cigarette manufacturing unit. Each unit will have a capacity of 4,500 million cigarettes annually, except the unit in Assam which will have a capacity to produce 3,000 million pieces per year. An application from the Madhya Pradesh Industrial Development Corporation is reported to be under consideration.

No. of Persons Employed: It is estimated that about 700,000 growers and 500,000 curers are engaged in tobacco cultivation. In the manufacturing sector, the total number of persons employed is estimated at 3 million of which, 2 million are in the bidi industry. About 14,000 are employed in the cigarette industry.

Ranking in the World Market: India is the third most important tobacco producing country next only to U.S.A. and Mainland China and accounts for about 8 per cent of the total world tobacco production.

Following is the estimated area in thousand hectares and production in million kgs. respectively, of tobacco producing countries of the world for the year 1973.

Argentina : 79·7, 73·6 ; Brazil : 204·4, 174·0 ; Bulgaria : 133·9, 135·0 ; Burma : 54·6, 43·5 ; Canada : 49·0, 123·7 ; China Mainland : 772·9, 953·9 ; Greece : 84·6, 91·6 ; India : 433·8, 363·6 ; Indonesia : 153·8, 75·5 ; Japan : 59·1, 153·5 ; Malawi : 60·7, 32·7 ; Pakistan : 40·5, 72·6 ; Philippines : 87·0, 77·6 ; Thailand : 98·7, 45·2 ; Turkey : 350·0, 159·0 ; U.S.A. : 358·5, 810·9 ; U.S.S.R. : 184·1, 257·5 ; Estimated World total : 4,027·4, 4,540·4 ; (Total includes data for countries not listed.)

Source: Directorate of Economics and Statistics, Govt. of India.

PRODUCTION

India produces several types of tobacco which fall under two botanical species, namely Nicotiana Tabacum and Nicotiana Rustica.

State-wise Production: In million kgs.

States	1970-71	1971-72	1972-73
Andhra Pradesh	144·0	205·0	155·9
Bihar	12·0	12·4	5·4
Gujarat	113·0	116·4	110·1
Karnataka	20·9	16·6	20·3
Maharashtra	6·1	6·6	4·4
Orissa	12·3	11·8	12·1
Tamil Nadu	21·8	16·1	18·6
Uttar Pradesh	9·7	9·8	12·4
West Bengal	7·7	8·6	10·0
Total All India (including other States)	361·9	418·9	363·6

Source: Directorate of Economics & Statistics, Min. of Agriculture.

Production Statistics of Bidis: It is estimated that about 250 billion pieces of bidis are manufactured annually.

Production of Cigarettes, Capacity and Utilisation

(Millions of Cigarettes)

Year	Production	Capacity	Utilisation
1970	62,110	58,290	106·6
1971	65,801	57,688	114·0
1972	62,014	—	—
1973	63,751	—	—

Ranking in the World Market: In 1972 India stood eleventh, with 62 billion cigarette pieces. It produced 1·8 per cent of the total world output as against U.S.A.'s 17·4 per cent (599 billion pieces) and U.S.S.R.'s 10·1 per cent (348 billion pieces).

EXPORTS

India is the fourth biggest exporter of tobacco in the world next only to U.S.A., Turkey and Greece. Tobacco is one of the important cash crops of the country and ranks ninth in India's export trade.

Indian FCV tobacco is exported to over 30 countries. Of these U.K., U.S.S.R. and Bangla Desh are the biggest buyers.

(In million Kgs.)

	1970–71	1971–72	1972–73
U.K.	17·6	16·5	14·5
U.S.S.R.	7·0	18·8	34·6
Bangla Desh	—	—	18·5
Japan	2·5	4·0	4·4
Total (including other countries)	38·8	49·4	83·0
Foreign Exchange earned in Rs. million	292	395	572

The total exports of unmanufactured tobacco including FCV during 1971–72 to 1973–74 (Quantity in thousand kgs. and value in million rupees respectively) was : 1971-72 : 57,288·5, 422·4 ; 1972-73 : 94,483·8, 610·7 ; 1973-74 : 72,200, 611·0.

The total exports of manufactured tobacco including cigarettes and bidis during 1971–72 to 1973–74 (Quantity in thousand kgs. and value in million rupees respectively) was: 1971-72: 3,608·4, 28·3; 1972-73: 3,613·0, 27·9; 1973-74 (April 1973 to Feb. 1974): 2,644·6, 21·87.

Exports of Cigarettes during 1971–72 to 1973–74 (Quantity in thousand kgs. and value in million rupees respectively) was: 1971-72: 1,178, 15·70; 1972-73: 1,073, 16·75; 1973-74 (April 1973–Feb. 1974): 704·4, 11·94.

Exports of Bidis during 1971-72 to 1973-74 (Quantity in thousand kgs. and value in million rupees respectively) was: 1971-72: 83, 1·59; 1972-73: 64, 1·40; 1973-74 (April 1973–Feb. 1974): 64·2, 1·33.

Export Duty: With the devaluation of rupee in June, 1966, an export duty of 75 paise per kg. or 20 per cent ad valorem, which ever is lower was, levied on unmanufactured tobacco.

Export Promotion Council: Tobacco Export Promotion Council (a Government agency), 123, Mount Rd., Madras 600006.

Statutory grades for all the varieties of unmanufactured tobacco entering the export trade have been prescribed by the Government for strict quality control.

CONSUMPTION

RAW TOBACCO FOR HOME CONSUMPTION

('000 kgs.)

Variety	1970–71	1971–72	1972–73
Flue Cured Virginia	42,894	45,563	42,393
Other than F.C.V. used for the manufacture of cigarettes and smoking mixture for pipes and cigarettes	28,834	28,917	26,070
Other than Flue-Cured and intended to be manufactured into:			
Bidi	78,568	78,792	76,839
Cigar, Cheroot ..	15,045	14,920	88,315
Snuff	4,490	4,444	
Hookah ..	26,085	28,879	
Chewing ..	50,945	50,787	
Others (Mostly used for bidi purposes or charged at bidi rates) ..	5,501	9,123	—
Agricultural purposes ..	44,039	38,342	54,713
Destruction ..	1,741	2,517	—
Stalks	28,624	34,542	44,390
Miscellaneous and Sp. Industrial purposes ..	1,455	3,414	398
Total	328,221	340,246	333,118

Source: Statistics and Intelligence Branch, Central Excise, New Delhi.

Nearly 80 per cent of the tobacco produced is locally consumed and the rest is exported.

Consumption of Cigarettes: It is estimated by the U.S. Agriculture Department that in 1971–72 the world consumption of cigarettes was over 30,000 million dollars (about Rs. 280,000 million).

The per capita consumption rate per month in India is about 10, as against 217 in US, 176 in UK, 170 in Japan, 168 in Singapore, 70 in Malaysia, 24 in Pakistan, 20 in Sri Lanka and 13 in Nepal.

Consumption of cigarettes in India was expected to reach 85,000 million by 1974. In 1971 it was estimated that the number of smokers in India was 20 million.

Tobacco in Each Cigarette: A regular ordinary cigarette of 7 mm length contains 1·05 gm. to 1·12 gm. of tobacco.

IMPORTS

The quantity and value of tobacco (manufactured, unmanufactured and cigarettes) imported into India during the past four years are given in the table below:

Year	Quantity (in thousand Kgs.)	Value (Rupees in Million)
1970-71	38	0·22
1971-72	122	0·40
1972-73	160	0·85
1973-74	101	0·32

The imports of flue-cured virginia tobacco were mainly from the U.S.A.

GENERAL

The nicotine content in flue-cured virginia tobacco grown in India ranges between 0·6 per cent to 3 per cent. Nicotine content is lower in Virginia tobacco grown in light soil areas and high in tobacco grown in heavy black soil.

Tobacco is an excisable commodity and its movements, processing and manufacture from the stage of harvesting till it is consumed or exported are controlled by the Central Board of Excise and Customs of the Ministry of Finance.

Different rates of duties are levied for different types and modes of consumption. The excise revenue collected during 1971-72 was Rs. 3,089 million. Customs duties totalled about Rs. 47 million.

Research: Research programmes on tobacco are implemented by the Indian Council of Agricultural Research. The Council has initiated an All India Co-ordinated Research Project on tobacco with its headquarters at Anand (Gujarat) with a view to conducting research for all round improvement of Indian tobacco.

The Central Tobacco Research Institute at Rajahmundry in Andhra Pradesh is mainly devoted to the investigation of fundamental problems connected with various aspects of tobacco. It also co-ordinates the work of other tobacco experimental farms and research stations (listed below), spread all over the country, which are carrying out research on different types of tobacco grown in the concerned regions.

1. Tobacco Research Station, Guntur, Andhra Pradesh.
2. Tobacco Research Station, Hunsur, Karnataka.
3. Tobacco Research Station, Vedasandur, Tamil Nadu.

4. Tobacco Research Station, Pusa, Bihar.
5. Tobacco Research Station, Dinhata, West Bengal.
6. Bidi Tobacco Research Scheme, Anand (Gujarat).
7. Bidi Tobacco Research Station, Nipani, Karnataka.

A well organised extension service operates in the tobacco growing areas under the control of Agricultural Departments of the State Governments for educating and training the farmers in the improved methods of harvesting, handling and curing of tobacco.

India Tobacco Co. Ltd., and their sister concern Indian Leaf Tobacco Development Co. Ltd. are conducting research on various aspects of tobacco at their research centre in Rajahmundry, Andhra Pradesh. Recently the company has established an integrated research centre at Bangalore.

The Indian Tobacco Development Council of the Government, formulates the tobacco development programmes, reviews the progress and considers the problems of marketing, trade and price policy.

The Tambaku Vikas Nideshalaya (Directorate of Tobacco Development) in the Ministry of Agriculture, with its headquarters at 3-A, Eldams Rd., Teynampet, Madras 600018, implements the development schemes, channels Government finances and renders technical advise and guidance.

The average **Per Hectare Yield** of tobacco in India during the last few years is given in the table below :—

Year	All tobacco	Virginia tobacco
1969-70	770	590
1970-71	810	605
1971-72	914	804
1972-73	838	706

According to the information compiled by the Tobacco Research Station, the cost of cultivation of FCV tobacco which is the main exportable variety, is estimated to range between Rs. 1,750 to Rs. 1,875 per hectare which does not include cost on account of land rent, depreciation, interest on capital etc.

WOOLLEN INDUSTRY

BRIEF HISTORY

THE woollen industry is one of the few manufacturing sectors which has made rapid strides in recent years. Although the first unit was set up more than a century ago, there was no significant expansion till the beginning of the fifties. From hardly 16 units in the organised sector of the industry in 1950, there are now 102 mills in the country with an installed capacity of 236,608 spindles.

The Indian Woollen Industry comprises of an organised sector and a wide range of decentralised sectors. The latter represents the traditional handicraft skills in design and execution as a domestic industry and the former represents the modern sophisticated production techniques and management.

LOCATION OF THE INDUSTRY

State-wise Distribution of Installed Capacity in 1974

Organised Mills

State	Number of Mills			Installed Capacity					
				Spindles					
	Spinning	Composite	Total	Worsted	Shoddy	Woollen	Others	Total	Power looms
1. Gujarat	—	2	2	9,140	—	5,230	—	14,370	167
2. Jammu & Kashmir ..	5	1	6	9,118	—	2,018	—	11,136	18
3. Madhya Pradesh ..	1	—	1	—	—	876	—	876	—
4. Maharashtra	10	9	19	53,232	11,952	4,788	—	69,972	562
5. Karnataka	1	1	2	—	—	100	11,124 (Union)	11,224	182
6. Haryana	9	1	10	1,104	940	8,911	—	10,955	18
7. Punjab	19	21	40	46,959	4,311	27,751	60	79,081	682
8. Rajasthan	6	—	6	—	672	1,895	—	2,567	—
9. Uttar Pradesh ..	7	1	8	9,672	2,848	11,895	—	24,415	250
10. West Bengal	1	3	4	6,512	240	1,380	—	8,132	93
11. Delhi	2	—	2	864	—	648	—	1,512	—
12. Himachal Pradesh ..	1	—	1	—	1,600	—	—	1,600	—
13. Bihar	1	—	1	—	—	768	—	768	—
	63	39	102	136,601	22,563	66,260	11,18	236,608	1,972

Public Sector : Out of the 102 organised units there are only 3 units in the public sector, the names and addresses of which are as follows :

1. Rajasthan Government Worsted Spinning Mills, Churu, Rajasthan ;
2. Kashmir Government Woollen Mills, Shirinbaugh, Srinagar, Jammu & Kashmir;
3. Government Spinning Mills, Nowshera, Srinagar, Jammu & Kashmir.

No. of Persons Employed : There are over 100,000 persons employed directly in the industry.

Capital Investment : The national figure is approximately Rs. 1,000 million.

PRODUCTION

India's 42 million sheep produce annually about 31·75 million kgs. of raw wool. About 50 per cent of the raw wool produced in India is below 40s count and a substantial part of this low quality is exported and the rest is used for the manufacture of coarser apparel and floor covering, etc.

Sheep Population and Production of Raw Wool and Wool Tops of some of the Important Wool Producing Countries

Country	Approx. Sheep Population (in millions) 1971-72	Approx. Output of Raw Wool (in million kgs.) 1972-73	Approx. Output of Wool Tops (in million kgs.) 1972
Argentina ..	39·0	194·0	—
Australia ..	163·9	770·0	22·88
France	10·1	21·0	111·32
Germany (West)	—	—	54·61
Italy	8·1	12·0	65·02
Japan	—	—	147·38
New Zealand ..	59·2	322·0	2·90
U.K.	26·9	47·0	75·08
U.S.A.	18·7	77·0	39·19
U.S.S.R. ..	139·9	419·0	—
Total (including other countries)	932·0	2,566·0	622·93

Source : Wool Statistics of Commonwealth Economic Committee.

EXPORTS

The net foreign exchange earned under this sector is estimated to be over Rs. 300 million.

EXPORTS OF WOOL & WOOLLENS

(Rs. million)

S. No.	Commodity	1972-73	1973-74
1.	Raw Wool	60·21	66·96
2.	Shoddy Wool & Waste ..	0·35	0·06
3.	Wool Tops..	—	—
4.	Woollen/Worsted Yarn ..	—	0·05
5.	Woollen/Worsted and Knitting Wool Mixed Fabrics	17·59	21·37
6.	Woollen Hosiery	168·80	181·23
7.	Woollen Readymade Garments	15·98	8·60
8.	Woollen Blankets.. ..	3·41	5·05
9.	Shawls and Lohis ..	—	3·61
10.	Carpets, Druggets and Numdahs	212·52	232·48
	TOTAL	359·69	519·49

Wool and Woollen Export Promotion Council

Address : Churchgate Chambers, 5, New Marine Lines, Bombay 400020.

IMPORTS

The production performance of the woollen industry is heavily dependent upon imported raw wool and wool tops. The industry was allotted Rs. 150 million of foreign exchange during 1973-74. However, the industry supplemented its raw material requirements by way of export promotion entitlements.

The trend in imports of raw wool during 1969-70 to 1972-73 was as follows (Quantity in million kgs. and value in million Rs. respectively): 1969-70 : 18·40, 165·18 ; 1970-71 : 19·05, 151·28 ; 1971-72 : 16·89, 117·84 ; 1972-73 : 10·07, 89·13.

GENERAL

Combing capacity in the industry needs to be expanded to meet the demands. Though the present capacity is about 18·14 million kgs. only 13·61 million kgs. was really effective. The combing requirement in terms of quantity works out to about 20·41 million kgs. There is a clear gap of about 6·8 million kgs.

Newly set up **Gujarat Sheep and Wool Development Corporation** at Anand Bldg., Mirzapur Rd., Ahmedabad 380001, will help the industry to produce quality wool by a cross-breeding programme for upgrading local sheep through regular supply of acclimatised exotic rams. To a great extent this will reduce imports of quality wool and improve prospects of self-sufficiency.

International Wool Secretariat at 41 New Marine Lines, Bombay 400020, is a non-commercial non-profit organisation with headquarters at London. Financed by subscriptions from the largest wool producing concerns round the world it helps the Indian Woollen Industry in all its problems such as economic, research, planning etc.

Research : Central Sheep and Wool Research Institute at Malpura (88 kms. from Jaipur) in Rajasthan, is run by the Indian Council for Agricultural Research and is partly aided technically and financially by F.A.O. Situated on a 1,618 hectares farm, its main programme is research and training facilities in sheep husbandry, better utilisation of land, wool shearing, grading, testing, technology and processing. It also trains key personnel, instructors, supervisors, managers and research workers.

Two sub-stations for sheep rearing and cross breeding are run by the Institute, one at Kulu (H.P.) and the other at Kodaikanal (T.N.).

Wool Research Association at SASMIRA, A-Besant Rd., Bombay 400025, is set up by the industry in collaboration with CSIR. It mostly deals with research on wool yarn and fibre and its application to different commodities, improvement of the quality of fabrics etc.

Association : Indian Woollen Mills' Federation, Churchgate Chambers, 5, New Marine Lines, Bombay 400020.

Some Large Units : With their addresses and the number of powerlooms in brackets.

1. Bombay Fine Worsted Manufacturers, Castle Mills, Agra Rd., Thana 400601, Maharashtra (170).

2. The Raymond Woollen Mills Ltd., J. K. Bldg., Morarjee Marg, Ballard Est., Bombay 400001, Maharashtra (196).

3. Binny Ltd. (Bangalore Woollen, Cotton & Silk Mills Co. Ltd.), Agraharam Rd., Bangalore 560023, Karnataka (182).

4. New Egerton Woollen Mills Ltd., (British India Corpn. Ltd.), Dhariwal, Punjab (230).

5. Cawnpore Woollen Mills Ltd., Civil Lines, Kanpur 208001, Uttar Pradesh (250).

6. Shree Digvijaya Woollen Mills Ltd., Aerodrome Rd., Jamnagar 361003, Gujarat (87).

Raw Material: The average yield of sheep in India works out at about 0·90 kg. as against over 4 kgs. in Australia.

Publications: 'Wool and Woollens of India', Churchgate Chambers, 5, New Marine Lines, Bombay 400020 (Monthly).

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(Corrected upto July 15, 1975. Further changes, if any, appear at the end of the book).

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Vice-President's Secretariat

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Textile Commissioner, R. P. Kapoor ; *Jt. Textile Commrs.,* A. K. Chandra, G. S. Bhargava ; *Indl. Adviser,* Dr. K. I. Narasimhan ; *Adviser* (*Cotton*), M. Madurai Nayagam ; REGIONAL OFFICES, *Ahmedabad, Amritsar, Bombay, Calcutta, Coimbatore, Madras and Kanpur.* WEAVERS' SERVICE CENTRES, *Bombay, Madras, Calcutta, Varanasi, Bangalore, Indore, Kancheepuram, Cannanore, Merut, Bhagalpur and Vijayawada.*

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Central Passport & Emigration Organisation

CPO, M. Kutty ; *R. P. Os.,* D. Ramaratnam (*Offg. Ahmedabad*), K. P. Kesavan (*Bombay*), B. M. Dutt (*Calcutta*), M. M. Saigal (*Offg. Chandigarh*), A. L. Puri (*In Charge-Lucknow*), B. S. Mathur (*Madras*), N. R. Mukerjee (*Delhi*), J. B. Pichamuttu (*Kerala*).

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Zoological Survey of India, 34, Chittaranjan Ave., Calcutta 700012. *Deputy Directors,* Dr. S. Khera, Dr. K. K. Tiwari, Dr. B. Biswas ; *W. Regnl. Stn.,* 1182/2, Fergusson College Rd., "Shivajinagar", Pune 411005 ; *Dy. Dir.,* Dr. B. K. Tikader ; *S. Regnl. Stn.,* 69, Santhome High Rd., Madras 600028 ; *Dy. Dir.,* Dr. A. G. K. Menon ; *N. Regnl. Stn.,* 13, Subhas Rd., Dehra Dun ; *Dy. Dir.,* Dr. B. S. Lamba.

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Director-General of Observatories, Y. P. Rao ; *Dy. Directors-Genl. of Observatories,* Vacant (*Adm.*) ; Dr. P. K. Das (*Plng.*) ; *Dirs.,* D. Krishna Rao (*Aviation Services*), H. M. Choudhury (*Seismology*), Dr. P. S. Pant (*N. Hemisphere Analysis Centre*), S. K. Das (*Telecommunications*), Vacant (*Hydrology*), Vacant (*Satellite Meteorology*) ; *Dy. Directors-Genl. of Observatories :* Miss A. M. Mani (*Instruments——New Delhi* 110003) ; George Alexander (*Forecasting—Meterological Office, Ganeshkhind Rd., Pune* 411005) ; C. R. V. Raman (*Climatology & Geophysics—Meteorological Office, Ganeshkhind Rd., Pune* 411005) ; *Dirs. :* Dr. R. P. Sarkar (*Agri. Meteorology, Meteorological Office, Ganeshkhind Rd., Pune* 411005) ; R. K. S. Saxena (*Regnl. Meterological Centre, A-29, Kailash, New Delhi* 110048) ; S. K. Ghose (*Regnl. Meteorological Centre, Alipore, Calcutta* 700027) ; Dr. A. K. Mukherjee (*Regnl. Meteorological Centre, Bombay* 400005) ; Dr. A. A. Rama Sastry (*Regnl. Meteorological Centre, College Rd., Madras* 600006) ; K. S. Venkataraman (*Regnl. Meteorological Centre, Civil Aerodrome, Sonegaon, Nagpur* 440001) ; Dr. S. Rangarajan (*Instruments, Meteorological Office, Ganeshkhind Rd., Pune* 411005) ; K. V. Rao (*Trg., Meteorological Office, Pune* 411005) ; Vacant (*Radio Meteorology, Meteorological Office, New Delhi* 110003) ; K. K. Ramamurthi (*Indian Ocean & S. Hemisphere Analysis Centre, Meteorological Office, Pune* 411005) ; Vacant (*Cyclone Warning & Research Centre, Meteorological Office, Madras* 600006).

Indian Institute of Tropical Meteorology, *Ramdurg House, Ganeshkhind Rd., Pune* 411005. An autonomous research orgn. specialising in studies of different aspects of tropical meteorology including Weather Prediction, Climatology, Hydrometeorology, Physical Meteorology, Aerology, Instrumentation and Observational Techniques.

Indian Institute of Astrophysics, *Kodaikanal* 624103 (Tamil Nadu). *Director :* Dr. M. K. Vainu Bappu.

Indian Institute of Geomagnetism, *Colaba, Bombay* 400005.

STATES ADMINISTRATIVE PERSONNEL

(Corrected upto July 15, 1975. Further changes, if any, appear at the end of the book.)

ANDAMAN & NICOBAR ISLANDS, Port Blair.

Chief Commr., Har Mandar Singh ; *Chief Devpt.-cum-Rehab. Commr.,* Jayaker Johnson ; *Chief Secy.,* D. C. Misra ; *Secs.,* Satish Chandra (*Finance*) ; Miss Janak Juneja (*Judicial*) ; E. S. Thangam (*Forests — Chief Conservator of Forests*) ; K. M. Sahni (*Devpt.*) ; A. K. Singhal (*Pub. Works*).

ANDHRA PRADESH, Hyderabad.

Governor: Vacant.

Ministers

Chief Minister in charge of Home, Gen. Adm., Major Irrigation, etc., J. Vengal Rao ; *Finance, Inf. & Pub. Relations, Housing, etc.,* P. Ranga Reddy ; *Industries,* P. Basi Reddi ; *Agri., Food Prodn., Sugar Ind. & Transport,* J. Chokka Rao ; *Health & Medical,* K. Rajamallu ; *Religious & Charitable Endowments,* R. S. Suryanarayana Raju ; *Forests, Wakfs,* Ibrahim Ali Ansari ; *Medium Irrigation, Flood Control & Drainage,* V. Krishnamurthi Naidu ; *Land Revenue, Evacuee Property, Legislature & Elections, etc.,* P. Narasa Reddi ; *Labour & Emp., Relief & Rehab.,* T. Anjaiah ; *Co-opn.,* B. Subba Rao ; *Panchayati Raj,* L. Lakshmanadas ; *Power,* G. Raja Ram ; *Mun Admn., Urban Devpt., etc.,* Ch. Subbarayudu ; *Primary, Secondary & Coll. Edn., Cult. Affairs,* M. V. Krishna Rao ; *Highways, Roads & Bldgs., etc.,* Ch. Venkat Rao.

Ministers of State

Social Welfare, Tech. Edn., etc., B. Sreeramamurti; *Minor Irrigation*, A. Venkata Reddi; *Tourism, Sports, Salar Jung Museum*, Ch. Devananda Rao; *Women & Child Welfare*, Smt. M. Lakshmi Devi; *Excise, Mines & Geology, Agro-Inds. Corpn., etc.*, V. Purushotham Reddi; *Mktg. & Warehousing*, P. Mahendranath; *Fisheries, Ports, Commerce & Export Promotion*, D. Muniswami; *Animal Husb., Dairy Devpt., etc.*, S. Venkatarama Reddy; *Law, Courts, Prisons, etc.*, Asif Pasha; *Handlooms & Textiles, Sericulture*, K. V. Keshavulu.

Secretariat, Hyderabad 500004.

Chief Secretary, N. Bhagwan Das; *Secs.*, K. B. Lal (*Agri. Prodn.*); P. V. Rathnam (*Home*); K. Subrahmanyam (*Food & Agri.*); V. Sundaresan (*Revenue*); S. R. Rama Murthy (*Inds. & Commerce*); M. Gopalakrishnan (*Pub. Works*); B. P. R. Vithal (*Finance & Plng.*); M. V. Rajagopal (*Panchayat Raj*); Dilsukh Ram (*Edn.*); M. R. Pai (*Health, Housing & Mun. Adm.*); M. A. Haleem (*Emp. & Social Welfare*); B. C. Gungopadhyay (*Forests & Rural Devpt.*); S. V. Subba Rao (*Law*); A. Shankar Reddi (*Legislative*); Syed Hashimi Ali (*G.A.D. & Addl. Food Prodn. Commr.*); E. V. Ramireddi (*Commr., Civil Supplies*); G. D. Qureshi (*Commr., Rehab.*); D. Sankaraguruswamy (*Financial Adviser & C. A. O., Nagarjunasagar & P.A., Srisailam & Pochampady, Godavari Projects*).

High Court, Hyderabad 500001.

Chief Justice, S. Obul Reddi; *Judges:* A. Sambasiva Rao, C. Kondaiah, A. Kuppuswami, K. Madhava Reddy, K. Ramachandra Rao, O. Chinappa Reddy, M. Ramachandra Raju, P. Sriramulu, T. Lakshmaiah, A. V. Krishna Rao, K. A. Muktadar, G. Venkatrama Sastri, P. Chennakesav Reddy, V. Madhava Rao, S. Madhusudan Rao, K. Punnayya, A. Raghuvir; *Registrar*, K. Srikrishna.

South Central Railway, Himmatnagar, Secunderabad 500025.

General Manager, K. S. Rajan; *Sr. Dy. Genl. Manager*, G. F. J. Lobo; *Chief Optg. Supdt.*, K. S. Charyulu; *Chief Commercial Supdt.*, C. V. B. Menon; *Chief Engr.*, K. Ramani; *Chief Engr. (Const.)*, K. A. Jacob; *F.A. & C.A.O.*, E. Varadachari; *Chief Mech. Engr.*, E. Ekambaram; *Chief Personnel Officer*, M. Sundaresan; *Chief Signal & Telecommunication Engr.*, A. Lakshminarayanan; *Chief Electrical Engr.*, K. Srinivasan; *Controller of Stores*, G. C. Basavaraj; *Chief Electrical Engr. (Electrification)*, A. Nandkeolyar; *Chief Security Officer*, L. J. Victor; *Chief Plng. Officer*, B. K. Batliwala; *Chief Medical Officer*, Dr. K. Raghavendra Rao; *Chief Pub. Relations Officer*, K. Alalasundaram.

ARUNACHAL PRADESH, Shillong.

Secretariat

Lt. Governor, K. A. A. Raja; *Chief Secy.*, M. L. Kampani; *Secs.:* T. Ringu (*Finance*), W. S. Rynhah (*Supply & Transport*), J. M. Shrivastava (*Law & Judl.*), K. Banerji (*Plng. & Dev.*), V V. Mongia (*G.A. & Edn.*).

Principal Officials

Dy. Commrs.: M. Jha (*Along*), Matin Dai (*Bomdila*), T. C. Hazarika (*Ziro*), B. P. Misra (*Khonsa*), I. A. Khan (*Tezu*); *Directors:* S. L. Soni (*Edn.*), M. P. Hazarika (*Inf. & Pub. Relations*), L. N. Chakraborty (*Research*), B. R. Raisingania (*Agri.*); *Chief Conservator of Forests*, J. C. Varmah.

ASSAM, Dispur, Gauhati 6.

Governor: L. P. Singh.

Ministers

Chief Minister in charge of Finance, Apptt., G. A., Political, etc., Sarat Chandra Sinha; *Inds., Tribal Affairs & Plng.*, Chatrasing Teron; *Law, Relief & Rehab., Mun. Admn., Panchayat, Parl. Affairs, Housing, etc.*, Syed Ahmed Ali; *Revenue, Land Reforms, etc.*, Parmananda Gogoi; *P.W.D., Power, Mines & Minerals, etc.*, Md. Idris; *Edn., etc.*, Harendra Nath Talukdar; *Social Welfare, etc.*, Uttam Chandra Brahma; *Fisheries*, Upendra Chandra Das; *Forests, Tourism, Livestock & Vet., Jail, etc.*, Dr. Lutfur Rahman; *Home, Inf. & Public Relations, Cult. Affairs*, Hiteswar Saikia; *Agri., Irrigation*, Md. Umaruddin; *Health & Family Plng.*, Girin Choudhury; *Transport*, Indeswar Khaund; *Sericulture & Wvg., etc.*, Surath Chandra Daolagupu; *Flood Control*, Lakshya Nath Doley.

Ministers of State

Social Welfare, Sericulture & Wvg., Smt. Swaran Prova Mahanta; *Co-opn.*, Bisnu Prasad; *Health & Family Plng.*, Dr. Suren Das; *Edn.*, Syeda Anwara Taimur; *Transport*, Suranjan Nandi; *Agri. & Irrigation*, Debendra Nath Bora; *Finance & Plng.*, Bejoy Sarma; *Revenue*, Dr. Bhumidhar Barman.

Deputy Minister

Agri., Lila Kanta Das.

Secretariat

Chief Secretary, D. Das, I.A.S.; *Commr. of Agri. Prodn. & Rural Devpt.*, B. K. Bhuyan; *Financial Commr. & Secy.*, R. S. Paramasivam; *Secs.*, T S. Gill (*Panchayat, Comm. Devpt.*), U. C. Tahbildar (*Law*), A. K. Choudhury (*Edn.*), K. L. Roy (*Mun. Adm.*), A. K. Palit (*Revenue & Forests*), B. Borua (*Agri. & Veterinary*), S. D. Phene (*Indus.*), P. N. Rau (*Transport & Tourism*), K. Saigal (*Plng. & Devpt.*), Mohammad Ali (*PWD*), A. N. Dutta Choudhury (*Irrigation*), B. R. Shori (*Flood Control*); *Commrs.:* P. H. Trivedi (*Hills Divn.*), B. Dowerah (*Plains Divn.*), B. C. Thakuria (*Excise*), S. Goswami (*Taxes*), M. G. Narasimhan (*Health*).

Principal Officials

Chmn., A.S.E.B., S. K. Mallick; *Registrar of Co-op. Socs.*, N. K. Choudhury; *Inspector-Genl. of Police*, Lala B. K. Dey; *Inspector-Genl. of Prisons*, N. R. Phukon; *Dirs.:* Dr. K. C. Mahanta (*Agri.*), R. M. Goswami (*Pub. Instruction*), B. C. Pathak (*Inf. & Pub. Relations*), K. K. Barua (*Emp. & Craftsman Trg.*), J. N. Sarma (*Economics & Stats.*), S. K. Bhattacharyya (*Geology & Mining*), Dr. S. N. Choudhury (*Sericulture & Wvg.*), K. P. Gogoi (*Inland Water Transp.*), M. Ahmed (*Fisheries*), P. Goswami (*Soil Conservation*), R. Baruah (*Cult. Affairs*), A. Rahman (*Small Savings*), S. Ali (*Vet. & Animal Husb.*), S. D. Gogoi (*Tech. Edn.*); *Chief Conservator of Forests*, P. Barua.

Gauhati High Court (High Court of Assam, Nagaland, Meghalaya, Manipur & Tripura), Gauhati.

Chief Justice, M. C. Pathak; *Judges*, D. M. Sen, B. N. Sarma, R. S. Bindra, Baharul Islam, D. Pathak; *Registrar*, B. Goswami; *Advocates-General*, J. C. Medhi (*Assam*), Vacant (*Nagaland*), N. M. Lahiri (*Meghalaya*), N. Ibotombi Singh (*Manipur*), H. C. Nath (*Tripura*).

North-East Frontier Railway, Maligaon, Gauhati 781011.

General Manager, M. R. Reddy; *Senior Dy. Gen. Manager & Chief Vigilance Officer*, A. C. Mathias; *Dy. Gen. Manager (G)*, C. M. Kulshreshtha; *Chief Personnel Officer*, P. K. Narayanaswami; *Chief Operating Supdt.*, Jagdish Lal; *Chief Engr.*, S. Ganesan; *Chief Mech. Engr.*, V.

Soni; *F.A. & C.A.O.*, K. Subramanian; *Chief Electrical Engr.*, N. Sankar Narayan; *Chief Signal & Telecomm. Engr.*, V. N. Swamy; *Chief Commercial Supdt.*, O. D. Agnihotri; *Chief Security Officer*, A. C. Dutta; *Chief Medical Officer*, Dr. S. K. Bose; *Chief Pub. Relations Officer*, J. M. Ovasdi; *Controller of Stores*, B. B. Bansal; *Chief Plng. Officer*, A. K. Gupta.

BIHAR, Patna.

Governor: R. D. Bhandare.

Lok Ayukta: S. V. Sohoni.

Ministers

Chief Minister in charge of Cabinet & Co-ordn., Home (Excluding Jails), Irrigation & Power, Industries, Law and Plng., Dr. Jagannath Mishra; *Labour & Emp.*, Mrs. Ramdulari Sinha; *Revenue & Land Reforms, Relief & Rehab.*, Ram Jaipal Singh Yadav; *P.W.D. (excluding Transport & P.H. Engg.)*, Vidyakar Kavi; *Finance & Co-opn.*, Jawar Hussain; *Agri. & Parl. Affairs*, Nawal Kishore Sinha; *Edn.*, Dr. Ram Raj Prasad Singh; *Food & Supply*, Ramashray Prasad Singh; *Mines, Geology & Excise*, Narsingh Batiha; *Health & Family Plng.*, Bindeshwari Prasad Dubey; *Transport & Animal Husb.*, Sukhdeo Prasad Verma; *Urban Devpt.*, Karam Chand Bhagat; *Forests & Tribal Welfare*, Theodor Bodra; *Rural Devpt.*, Mohammad Hussain Azad; *Jails & Welfare (excluding Tribal Welfare)*, Ramratan Ram.

Minister of State

Revenue, Aneshwar Azad.

Secretariat

Chief Secretary & Vigilance Commr., Saran Singh, I.A.S.; *Development Commr.*, S. C. Roy; *Health Commr. & Principal Secy.*, V. V. Nathan; *Indus. Dev. Commr.*, A. F. Kutto; *Civil Defence Commr.*, B. N. Basu; *Mines & Geology Commr. & Principal Secy.*, Karam Singh; *Chief Adm., River Valley Projects*, Singheshwar Sahaya; *Relief & Rehab. Commr.*, I. N. Thakur; *Agri. Prodn. Commr.*, M. Alam; *Finance Commr.*, R. P Khanna; *Land Reforms Commr. & Principal Secy.*, P. C. Bhagat; *Admve. Reforms Commr.*, N. D. J. Rao; *Commr. for Deptl. Enquires*, R. C. Prasad; *Education Commr. & Principal Secy.*, K. P. Sinha; *Chief Electoral Officer cum Special Secy., Cabinet Sectt.*, Vacant; *Public Works Commr. & Principal Secy.*, S. Sharan; *Spl. Secy., Finance*, Dr. J. C. Kundra; *Secs.*, U. Singh (*Labour & Emp.*); S. R. Adige (*Revenue & Land Reforms*); C. R. Venkataraman (*Personnel*); R. K. Srivastava (*Cooperative*); S. P. Jakhanwal (*Agriculture-Addl.*); S. Bhatnagar (*Irrigation & Elections*); B. Prasad (*Welfare & Forests*); J. P. Singh (*Law*); Dr. Kumar Suresh Singh (*Community Devpt. & Panchayat*); R. N. Das (*Home*); B. L. Das (*Plng.*); R. K. Sinha (*Finance — Addl.*); J. Murli (*Industries*); *Addl. Commr., Agri. Prodn.*, Arun Prasad; *Food Commr.*, N. K. Bharadwaj; *Comm. Taxes Commr.*, R. Shrinivasan; *Registrar, Co-op. Socs.*, M. A. M. Gilani; *Dir. of Industries*, S. M. Sinha; *State Transport Commr.*, B. P. N. Sahi; *Inspector-Genl. of Police*, A. K. Ghosh; *Inspector-Genl., Police Manual*, T. Nath.

High Court, Patna.

Chief Justice: Shyamnandan Prasad Singh; *Judges:* Syed Anwar Ahmad, Krishna Ballabh Narayan Singh, Shambhu Prasad Singh, Bhubheshwar Dhari Singh, Achalendra Nath Mukherji, Chandrika Prasad Sinha, Syed Sarwar Ali, Madan Mohan Prasad, Jitendra Narain, Siveshwar Prasad Sinha, Rameshwar Prasad Sinha, Durga Prasad Sinha, Chandra Narain Tiwary, Bhagwati Prasad Jha, Hari Lal Agrawal, Lalit Mohan Sharma; *Addl. Judges:* Sushil Kumar Jha, Nagendra Prasad Singh, Muneshwari Sahay, Sunil Kumar Chaudhuri, Uday Sinha, Syed Ali Ahmad; *Registrar*, Chaudhury S. S. Sinha.

DELHI, Delhi.

Lt. Governor: Krishan Chand.

Chief Executive Councillor, Radha Raman; *Executive Councillors*, Mange Ram (*Finance*), O. P. Behl (*Food & Civil Supplies*), Krishan Swarup (*Medical*); *Chief Secretary*, J. K. Kohli; *Financial Commr.*, K. C. Johri; *Development Commr.*, M. D. Tyagi; *Judicial Secy.*, Rajni Kant; *Finance Secy.*, L. R. K. Prasad; *Deputy Commr.*, Susheel Kumar; *I.G. of Police*, Bhawani Mal; *Labour Commr.*, K. D. Gupta; *Sales Tax Commr.*, Virendra Prakash; *Dt. & Session Judge*, K. S. Sidhu; *Directors:* P. R. Chauhan (*Education*), V. K. Tyagi (*Inf. & Publicity*), B. K. Singh (*Industries*), R. K. Anuja (*Trg. & Emp.*).

High Court, New Delhi 110001.

Chief Justice, T. V. R. Tatachari; *Judges*, Jagjit Singh, S. N. Shankar, V. S. Deshpande, S. Rangarajan, Prakash Narain, P. S. Safeer, M. R. A. Ansari, V. D. Misra, B. C. Misra, Prithvi Raj, Dalip K. Kapur, T. P. S. Chawla, A. B. Rohatgi; *Addl. Judges*, R. N. Aggarwal, H. L. Anand, Yogeswar Dayal; *Registrar*, Mohinder Singh Joshi.

Northern Railway, Baroda House, New Delhi 110001.

General Manager, V. P. Sawhney; *Sr. Dy. Gen. Manager*, P. R. Pusalkar; *Chief Operating Supdt.*, O. P. Chopra; *Chief Commercial Supdt.*, Prabhindar Singh; *Chief Engr.*, G. H. Keswani; *Chief Engr. (Const.)*, D. C. H. Mathur; *F.A. & C.A.O.*, M. S. Gill; *Chief Mech. Engr.*, D. R. Kochhar; *Chief Signal & Telecomm. Engr.*, D. P. Purang; *Chief Signal & Telecomm. Engr. (Const.)*, R. K. Dandekar; *Chief Personnel Officer*, J. N. Kohli; *Chief Elec. Engr.*, V. Seetharaman; *Chief Security Officer*, Markandey Singh; *Chief Medical Officer*, J. C. Mehta; *Controller of Stores*, S. K. Sabharwal; *Chief Pub. Relations Officer*, Chand Narain; *Chief Plng. Officer*, H. R. Chopra.

GOA, DAMAN & DIU, Panaji.

Lt. Governor: (*Concurrently Administrator of Dadra & Nagar Haveli*) S. K. Banerjee.

Ministers

Chief Minister in charge of G.A., Home, Finance, Industries, Health, Public Works, Inf. & Tourism, Edn., Public Health, Small Savings etc., Smt. Shashikala G. Kakodkar: *Plng., Agri. & Irrigation, Animal Husb., etc.*, A. K. S. Usgaonkar; *Law, Judiciary, Civil Supplies, Food, Labour, etc.*, Pratap Singh Raoji Rane Sardesai.

Secretariat

Chief Secretary, T. Kipgen, I.A.S.; *Judicial Commr.*, Tito Menezes; *Dev. Commr. & Secretary, Plng. & Dev.*, Dr. J. C. Almeido; *Secs.: Industries and Labour*, S. C. Pandey; *Law & Judiciary*, B. M. Masurkar; *Finance*, Puran Singh; *Revenue*, S. R. Arya.

Principal Officials

Dir. of Industries & Mines, P. Rai; *Director, Inf. & Tourism*, M. N. Padte; *Collector of Goa*, Nariyaswamy; *Collector of Daman*, Jagdish Sagar; *Civil Administrator, Diu*, E. N. Rodriques.

GUJARAT, Gandhinagar (Ahmedabad Dist.).

Governor: K. K. Viswanathan.

Ministers

Chief Minister in charge of Gen. Adm., Finance, Plng., Indl. Policy & Capital Project, Babubhai J. Patel;

Panchayat & Civil Supplies, Maneklal M. Gandhi; *Agri. & Irrigation*, Keshubhai S Patel; *Power, Industries, Parl. Affairs, Transport, etc* , Bhailalbhai G. Contractor; *Labour, Town Plng., etc.*, Navinchandra M. Barot; *Home, Judiciary, Inf. & Tourism*, Popatlal M. Vyas; *Village Inds. & Co-opn.*, Lallubhai M. Sheth; *Roads & Bldgs.*, Motibhai R. Chaudhary; *Edn. & Animal Husb.*, Navalbhai N. Shah; *Revenue & Famine Relief*, Keshubhai R. Patel; *Housing & Accommodation Control*, Makrand B. Desai; *Law & Jails*, Rasikchandra D. Acharya; *Ports, etc.*, Vinodchandra B. Sheth; *Health & Family Plng.*, Mrs. Hemaben S. Acharya; *Social Welfare, Sports, etc.*, Karsandas H. Soneri; *Forests & Fisheries*, Mohansinh C. Rathwa; *Rural Housing & Minor Irrigation*, Shankerbhai Waghela; *Prohibition, Excise, Sarvodaya*, Harisinh P. Chavda.

Parliamentary Secretaries, Lekhraj Banchani, Rajkumar Gupta.

Secretariat

Chief Secretary : L. R. Dalal, I.C.S.; *Secs.*, K. G. Badlani (*Home*); M. G. Shah (*Finance*); K. N. Zuthshi (*Public Works*); S. M. Dudani (*Agri. & Forests*); R. B. Shukla, (*Edn. & Labour*); R. V. Chandramouli (*Food & Civil Supplies*); A. M Ahmedi (*Legal Deptt.*); S. H. Jagad (*Revenue*); G. N. Dike (*Panchayats & Health*); M. Sivgnanam (*Inds., Mines & Power*).

Principal Officials

Dirs.: Dr. G. A. Patel (*Agri.*); Dr. V. H. Thakore (*Pub. Health & Medical Services*); Prof. A. K. Kumta (*Tech. Edn.*); Devendra Dixit (*Inf., Tourism & Examiner of Books & Pubns.*); P. B. Buch (*Bureau of Economics & Stats.*); S. C. Shah (*Drugs Control*); Dr. N. C. Buch (*Animal Husb.*); S. V. Chandorikar (*Transport*); S. H. Munshaw (*Edn.*); K. J. Kurava; (*Social Welfare*); R. K. Budabhatti (*Ports*); P. B. Joshi (*Prohibiton*); *Commissioners :* Kumar Pradyumansinghji (*Inds.*); Musa Raza (*Fisheries*); J. P. Raval (*Labour*); B. T. Trivedi (*Sales Tax*); *Inspector Genl. of Police :* P. M. Pant; *Commr. of Police (Ahmedabad)*, E. N. Rennison; *Inspector Genl. of Prisons*, S. V. Chandorikar; *Registrar of Co-op. Socs. & Registrar of Money Lenders*, K. D. Budha; *Chief Conservator of Forests*, R. I. Patel; *Vigilance Commr.* N. D. Buch.

High Court, Navrangpura, Ahmedabad 380009.

Chief Justice B. J. Divan; *Judges* B. J. Mehta, A. D. Desai, J. M. Sheth, D. A. Desai, S. N. Patel, S. H. Sheth, D. P. Desai, M. P. Thakkar, T. U. Mehta, P. D. Desai, B. K. Mehta; *Addl. Judges*, C. V. Rane, A. N. Surti, N. H. Bhatt, M. C. Trivedi; *Registrar*, J. M. Kamodia.

HARYANA, Chandigarh.

Chief Commissioner, Chandigarh, N. P. Mathur.

Governor: B. N. Chakravarty.

Ministers

Chief Minister in charge of Gen. Adm., Adm. of Justice Plng. etc., Bansi Lal; *Home, Jails, Pub. Relations, Tourism, Sports, etc.*, K. L. Poswal; *Finance, Dairy Devpt., Animal Husb., etc.*, Ram Saran Chand Mittal; *Irrigation & Power, Co-opn., Agriculture, etc.*, Banarasi Das Gupta; *Inds., Health & Indl. Trg.*, Harpal Singh; *Edn., Language, etc.*, Maru Singh Malik; *Social Welfare, Excise & Taxation, Food & Supplies, Forests, etc.*, Shyam Chand; *Revenue, Rehab., Tech. Edn., etc.*, Chiranji Lal; *Transport, Labour & Empl., etc.*, Maha Singh; *Housing, Forests, Fisheries, etc.*, Pokar Ram.

Ministers of State

Home, Pub. Health & Tourism. etc., Smt. Sharda Rani; *Edn. Excise & Taxation, Transp., etc.*, Smt. Parsanni Devi; *Local Self-Govt., Co-opn., Tech. Edn., etc.*, Govardhan Das; *Plng., Irrigation & Power, Food & Supplies, Agri., etc.*, Harminder Singh Chatha.

Secretariat

Chief Secretary & Secy., Plng., Home, Jails, Revenue, Rehab., etc., S. D. Bhambri; *Secs.*, V. P. Johar (*Agri., Dairy Devpt., Co-opn., Forests, Fisheries, Animal Husb., Food & Supplies*); P. P. Caprihan (*P.W.D., Excise & Taxation, Transport, etc.*); S. N. Bhanot (*Finance, Tech. Edn., Indl. Trg., etc.*); Miss M. Seth (*Health, Inds., Labour & Emp.*); J. S. Sarohia (*Excise & Taxation, Panchayat & Local Govt.*); Kulwant Singh (*Social Welfare, Edn., Housing, etc.*); A. Banerjee (*Vigilance, Town & Country Plng., etc.*); Smt. Kiran Aggarwal (*Tourism, Cult. Affairs, Wild Life Preservation, etc.*).

Principal Officials

Chmn., Pub. Service Commn., M. L. Batra; *Inspector-Genl. of Police*, Kanwar Randip Singh; *Excise & Taxation Commr.*, M. C. Gupta; *State Transport Controller*, S. K. Sharma; *Labour Commr.*, Dhanendra Kumar; *Dirs.*, Ashok Pahwa (*Pub. Relations & Grievances*); Dr. P. R. Sondhi (*Health Services*); G. V. Gupta (*Pub. Instruction*); S. G. Sundaram (*Indl. Trg.*); Kulwant Singh (*Social Welfare*); V. S. Ailawadi (*Agri.*); S. P. Mittal (*Food & Supplies*); B. L. Mittal (*Inds.*).

High Court (*Given Under Punjab*).

HIMACHAL PRADESH, Simla.

Governor: S. Chakravarti.

Ministers

Chief Minister in charge of Gen. Adm., Home & Personnel, Plng., Finance, Forests, Pub. Relations, Horticulture, Edn., Agri., Animal Husb. & Fisheries, Comm. Devpt., Dr. Y. S. Parmar; *Pub. Works, Health & Family Plng., Tourism, etc.*, Ram Lal Chauhan; *Revenue, Rehab., Civil Supplies, Co-opn. & Panchayats, Transport, Law, etc.*, Des Raj Mahajan; *Agri., Industries, Excise & Taxation, Housing, etc.*, Lal Chand Prarthi.

Ministers of State

Panchayats, Comm. Devpt., Law, Hardyal; *Welfare, Forests*, Mansa Ram; *Local Self-Govt., Co-opn., Health & Family Plng.*, Smt. Sarla Sharma.

Chief Parl. Secretary (Parl. Affairs, Plng. & Transport), Babu Ram; *Parl. Affairs, Pub. Relations & Agri.*, Kishori Lal Tadu.

Secretariat, Simla 171002.

Chief Secretary, (Home, Personnel, Gen. Adm., Plng., Economics & Stats., Pub. Relations, Integration & Border Affairs), U. N. Sharma; *Secs. :* L. Hamingliana Tochawang (*Revenue, Relief & Rehab., M.P.P. & Power, Election*); K. C. Pandeya (*Financial Commr.*); P. K. Mattoo (*Inds. Labour, Emp. & Trg., Forests, Excise & Taxation, Local Self-Govt.*); B. K. Sharma (*Plng.*); C. M. Chaturvedi (*Secy. to C. M. & Univ. Edn.*); Ganesh Mishra (*Pub. Works, Transport & Tourism*); Anang Pal (*Finance, Economic Affairs, etc.*); T. R. Handa (*Law — Legal Remembrancer*); M. S. Mukherjee (*Food, Civil Supplies, Co-opn., Housing*); R. C. Gupta (*Edn. & Family Plng.*); *Resident Commr., 11, Golf Links, New Delhi* 110003. B. S. Singh.

Principal Officials

Registrar of Co-op. Socs., B. D. Thapar; *Chief Conservator of Forests*, R. C. Kaushik; *Commr., Transport & Tourism*, S. K. Alok; *Directors :* Harish Chander (*Civil Supplies*); J. C. Sharma (*Health Services*); B. L. Handa (*Edn.*); G. C. Negi (*Animal Husb.*); Dr. B. S. Jogi (*Agri.*);

R. S. Rana (*Horticulture*) ; R. S. Bhatnagar (*Economics & Stats.*) ; H. K. Mittoo (*Pub. Relations*) ; R. P. Astora (*Fisheries*), Smt. Anjula Karki (*Welfare — Inspector-Genl. of Prisons*) ; S. M. Kanwar (*Inds.*) ; P. S. Rana (*Vigilance*) ; *Inspector-Genl. of Police*, D. C. Sharma.

High Court, Simla.

Chief Justice, R. S. Pathak ; *Judges*, D. B. Lal, Chet Ram Thakur ; *Registrar*, Kedarishwar.

JAMMU & KASHMIR, Srinagar.

Governor : L. K. Jha.

Ministers

Chief Minister in charge of Gen. Adm., Home, Plng., Edn., Emp. & Youth Welfare, Health & Family Plng., Medical Edn., Labour, Inf. & Publicity, Social Welfare, etc., Sheikh Mohammed Abdullah ; *Revenue, Agriculture, Forests, Industries, Parl. Affairs, etc.*, Mirza Mohammed Afzal Beg ; *Finance, Law, Food & Supplies, Transport, Relief & Rehab., etc.*, Dass Thakur ; *Pub. Works, Housing & Urban Devpt., Power Devpt., Ladakh Affairs, Tourism*, Sonam Narboo.

Ministers of State

Irrigation & Flood Control, Kachu Mohammad Ali ; *Animal Husb.*, Mohammad Aslam ; *Revenue & Agri.*, Ghulam Nabi Kochak ; *Parl. Affairs & Industries*, Bhagat Chajju Ram ; *Transport, Relief & Rehab.*, Mangat Ram ; *Food & Civil Supplies*, G. M. Shah ; *Edn.*, Rangil Singh ; *Health & Family Plng.*, Attaulah Suhrawardy ; *Law & Evacuee Property*, M. K. Tikoo ; *Public Works*, H. Habibullah ; *Labour & Social Welfare*, Mrs. Zainab Begum.

Chief Parl. Secretary, Diwakar Singh.

Secretariat

Chief Secretary, S. Banerji ; *Addl. Chief Secy.*, R. C. Raina ; *Secy.-cum-Plng. Commr.*, Noor Mohammed ; *Secys. :* Ghanshyam (*Home*) ; S. A. S. Qadiri (*Rehab.*) ; R. S. Gill (*Power Devpt.*) ; Choudhary Bharat Bhushan (*Finance*) ; Sheikh Ghulam Ahmed (*Health*) ; P. N. Kaul (*Agri. Prodn.*) ; M. R. Bhagat (*Revenue*) ; H. R. Sharma (*Food, Supplies & Transport*) ; G. R. Renzu (*Inf.*) ; Qasi Mohd. Afsal (*Works*) ; R. K. Thakkar (*Forests*) ; Ashok Jaitly (*Inds. & Commerce*) ; Ghulam Shah (*Law*) ; S. N. Dogra (*Tourism*) ; J. P. Kesar (*Labour & Social Welfare*) ; Shamsud Din (*General Deptt.*).

Principal Officials

Div. Commrs., Ghulam Mohd. Mir (*Kashmir*); Mir Nazrullah (*Jammu*) ; *Devpt. Commr., Ladakh*, Mehmuduri Rehman ; *Inspector-Genl. of Police*, P. A. Rosha ; *Financial Commr.*, S. A. S. Qadiri; *Urban Devpt. Commr.*, Peerzada Ghulam Nabi ; *Dirs.*, G. R. Renzu (*Inf.*) ; S. K. Kak (*Tourism*) ; Sheikh Ghulam Ahmed (*Health Services*) ; S. C. Chakravarty (*Geology & Mining*) ; A. G. Malik (*Agri.*) ; Dr. G. A. Banday (*Sheep Breeding*) ; O. N. Dhar (*Inds. & Commerce*) ; Abdur Rashid Wani (*Fisheries & Game*) ; *Commr., Transport*, S. M. S. Farooqi ; *Labour Commr.*, Aga Altaf Hussain ; *Chief Conservator of Forests*, Ghulam Naqashband ; *Controller, Tawaza*, Wazir Ram Nath ; *Registrar, Co-operatives*, P. P. Khajuria.

High Court, Srinagar 190001.

Chief Justice, Vacant ; *Judges*, Jaswant Singh, Mian Jalal-ud-din, Mufti Baha-ud-din Farooqi, Syed Wasi-ud-Din (*ad-hoc*) ; *Registrar*, R. C. Bhat.

KARNATAKA, Bangalore.

Governor : Mohanlal Sukhadia.

Ministers

Chief Minister in charge of Gen. Adm., Plng., Home, Irrigation & Power, D. Devaraj Urs ; *Public Works*, H. M. Chennabasappa ; *Health*, H. Siddaveerappa ; *Transport*, Mohammed Ali Mehtab Ali ; *Edn.*, M. Mallikarjunaswamy ; *Revenue*, N. Hutchmasti Gowda ; *Finance*, M. Y. Ghorpade ; *Industries, Commerce & Parl. Affairs*, S. M. Krishna ; *Mun. Admn.*, D. K. Naikar ; *Co-opn.* H. K. Ranganath ; *Agri. & Animal Husb.*, N. Chikke Gowda ; *Rural Devpt. & Social Welfare*, N. Rachaiah ; *Labour & Excise*, S. M. Yahya ; *Forests* C. N. Patil ; *Food & Civil Supplies*, Mrs. Eva Vaz.

Ministers of State

Fisheries & Horticulture, K. T. Rathod ; *Minor Irrigation*, S. B. Nagaral ; *Sericulture*, V. S. Koujalgi ; *Agri. & Animal Husb.*, Devendrappa Ghalappa ; *Co-opn.*, R. D Kittur ; *Inf. & Youth Services*, R. Gundu Rao ; *Labour*, K. Sriramulu ; *Small Scale Inds.*, M. Veerappa Moily ; *Major & Medium Irrigation*, Subash Asture ; *Women's & Children's Welfare*, Mrs. Manorama Madhwaraj ; *Land Reform*, B. Subbayya Shetty ; *Power*, H. C. Srikantaiah.

Secretariat Vidhana Soudha, Bangalore 560001.

Chief Secy., G. V. K. Rao ; *Secs. : Agri.*, D. Balagopalan ; *Commerce & Inds.*, Veeraraj Urs ; *Devpt.*, D. J. Balaraj ; *Edn.*, B. Srikantaiah ; *Finanee*, T. R. Satishchandra ; *Food*, P. Padmanabha ; *Home*, B. S. Hanuman ; *Law*, N. D. Venkatesh ; *Public Works*, V. Varadan ; *Revenue*, K. Balasubramaniam ; *Social Welfare*, K. Narasimha Murthy ; *Health*, G. B. D'Mellow.

Principal Officials

Dirs. : R. Dwarkanath (*Agri.*) ; Dr. P. P. Kurumbia (*Animal Husb.*) ; B. Mariraj (*Pub. Instruction*) ; V. T. Shantamallappa (*Tech. Edn.*) ; G. L. Rao (*Fisheries*) ; Dr. Putturaj Urs (*Health Services*) ; Zafar Saifullah (*Inds.*) ; T. S. Narayana Rao (*Bureau of Economics & Statistics*) ; T. P. Issar (*Food Supplies*) ; D. R. Gunduraj (*Sericulture*) ; N. Ramachandra Rao (*Emp. & Trg.*) ; B. G. Kulkarni (*Inf.*) ; Dr. B. P. Radhakrishna (*Mines & Geology*) ; M. D. Mariputtanna (*Tourism*) ; *Registrar of Co-op. Socs.*, M. Maharudriah ; *Chief Conservator of Forests*, G. R. Mavinkurve ; *Labour Commr.*, Siddayya Puranik ; *Inspector-Genl. of Police*, C. V. S. Rao ; *Drugs Controller*, K. N. Shanubhogue ; *Transport Commr.*, Syed Habibuddin Ahmed.

High Court, Atara Kacheri Bldgs., Bangalore 560001.

Chief Justice, G. K. Govinda Bhat ; *Judges*, D. M. Chandrashekhar, C. Honniah, K. Bhimiah, B. Venkataswami, M. Sadanandaswamy, D. Noronha, V. S. Malimath, S. R. Range Gowda, E. S. Venkataramiah, K. Jagannatha Shetty, M. S. Nesargi, M. K. Srinivasa Iyengar ; *Registrar*, P. S. Bhat ; *Advocate-General*, R. N. Byra Reddy.

KERALA, Trivandrum.

Governor : N. N. Wanchoo.

Ministers

Chief Minister, G.A., Integration, Plng., Inter-State River Waters, etc., C. Achutha Menon ; *Home* (*Police, Election & Anti-Corruption*), *Adm. of Civil & Criminal Justice, Inf. & Publicity, etc.*, K. Karunakaran ; *Forests, Finance, Lotteries, etc.*, Dr. K. G. Adiyodi ; *Panchayats, Town Plng., Fisheries, Pub. Health Engg., Ports, etc.*, K. Avukaderkutty Naha ; *Land Revenue & Excise*, Baby John ; *Health & Co-opn.*, N. K. Balakrishnan ; *Public Works, Irrigation, Flood Control & Anti-Sea Erosion*, T. K. Divakaran ; *Harijan Welfare, Comm. Devpt., Devaswoms, etc.*, Vella Eacharan ; *Food, Civil Supplies, Rehab.*, *etc.*, Paul P. Mani ; *Transport & Communications, Electricity, Housing, etc.*, M. N. Govindan Nair ; *Edn., Social Welfare, Jails, etc.*, C. Ahmed Kutty ; *Agri., Animal Husb. & Dairy Dev., Labour, Emp. & Trg., etc.*, Vakkom Purushothaman ; *Industries & Commerce, Cement, Iron and Steel, Handloom & Coir, etc.*, T. V. Thomas.

Secretariat

Chief Secretary, K. P. K. Menon, I.A.S. ; *Addl. Chief Secy.*, N. Chandra Bhanu ; *Spl. Secs.*, K. B. Warrier (*Public Deptt.*) ; P. K. Abdulla (*Public Works*) ; P. Velayudhan Nair (*Finance*) ; K. Narayanan (*Inds.*) ; S. Narayanaswamy (*Home*) ; *Secs.*, P. K. Umasankar (*Higher Edn.*) ; Zacharia Mathew (*Gen. Edn.*) ; V. Venkitanarayan (*Taxes*) ; K. V. Ramakrishnan (*Revenue*) ; S. Varadachary (*Addl.*) ; M. S. K. Ramaswamy (*Devpt.*) ; P. G. Muralidharan (*Agri.*) ; U. Mahabala Rao (*Labour*) ; K. V. Rabindran Nair (*Finance-Exp.*) ; C. P. Ramakrishna Pillai (*Health*) ; G. Gopalakrishna Pillai (*Water & Power*) ; S. Nagarajan, T. R. Sukumaran Nair (*Addl.-Agri.*) ; S. Krishnakumar (*Addl. Food*) ; M. Joseph (*Addl.-Inds.*) ; M. Sekharan (*Law*) ; Dr. P. K. Gopalakrishnan (*Plng. & Economic Affairs*) ; S. Ananthakrishnan (*Spl. Vigilance*).

Principal Officials

Dirs., N. Kaleeswaran (*Agri.*) ; Dr. G. Neelakanta Pillai (*Animal Husb.*) ; N. C. Unnithan (*Archaeology*) ; Dr. N. Gopalakrishnan Nair (*Bureau of Economics & Stats.*) ; Smt. Molly Thomas (*Coll. Edn.*) ; Philopose Thomas (*Dairy Devpt.*) ; Smt. L. Omanakunjamma (*Emp. & Trg.*) ; Dr. K. Balaraman (*Health Services*) ; M. Mukundanunni (*Fisheries*) ; V. K. Chandrasekharan (*Lotteries*) ; N. C. Surendran (*Harijan Welfare*) ; Babu Jacob (*Inds. & Commerce*) ; K. N. Sukumaran (*Tourism*) ; V. Subramaniam (*Vigilance Investigation*) ; G. Vivekanandan (*Pub. Relations*) ; K. P. Thevan (*Small Savings*) ; R. Ramachandran Nair (*Pub. Instruction*) ; P. T. Joseph (*Indl. Research Instt.*) ; Dr. S. Vasudev (*Technl. Edn.*) ; Dr. N. Sreedharan (*Indigenous Medicine*) ; Jacob Kurian T. (*Mining & Geology*) ; N. Parameswara Pillai (*Museums & Zoos*) ; A. K. N. Nambiyar (*Research & Studies*) ; *Registrar of Co-op. Socs.*, T. N. Jayachandran ; *Inspector-Genl. of Police*, V. N. Rajan ; *Inspector-Genl. of Prisons*, P. Gopala Menon ; *Drugs Controller*, K. Chandrasekharan Nair ; *Commr. of Labour*, S. Gopalan ; *Chief Conservator of Forests*, P. T. Devassy ; *Chief Engrs.*, K. Bharathan (*PWD — Gen. & Projects*) ; Kum. P. K. Theresia (*B. & R.*) ; P. Aravindakshan Achan (*Irrigation*) ; D. Appukuttan Nair (*P.H. Engg.*).

High Court, Ernakulam, Cochin 682011.

Chief Justice, P. Govindan Nair ; *Judges*, V. P. Gopalan Nambiyar, V. Balakrishnan Eradi, P. Narayana Pillai, P. Subramonian Poti, N. D. P. Nambodiripad, G. Viswanatha Iyer, V. Khalid, K. Bhaskaran, George Abraham Vadakkel, T. Chandrasekhara Menon, Miss P. Janaki Amma, K. K. Narendran, G. Balagangadharan Nair, S. K. Kadir ; *Registrar*, A. C. Kuruvilla ; *Advocate-General*, M. M. Abdul Khadir.

MADHYA PRADESH, Bhopal.

Governor : Satya Narayan Sinha.

Ministers

Chief Minister in charge of Gen. Adm., Home, Publicity, Language, Youth Affairs, Town & Country Plng., Tourism, Archaeology, etc., P. C. Sethi ; *Finance, Separate Revenue, Regn.*, S. S. Mushran ; *Forests*, M. P. Dube ; *Labour, Emp., Rehab., Harijan & Social Welfare*, G. R. Anant ; *Irrigation & Electricity*, V. R. Uikey ; *Revenue, Land Records, Survey & Settlement, Land Reforms*, K. L. Shukla ; *Edn., Vocal Edn., etc.*, Arjun Singh ; *Plng., Economics & Stats., Law & Leg. Affairs, Jails*, K. P. Singh ; *Commerce & Inds., Natural Resources*, B. D. Mahant ; *Public Works*, Tej Tembhre ; *Pub. Health Engg.*, Gulabchand Tamot.

Ministers of State

Tribal Welfare, Smt. Surti Kistaiya ; *Finance, etc.*, Smt. Devendra Kumar ; *Forests*, Umrao Singh ; *Irrigation & Electricity*, Ajiz Qureshi ; *Plng., Economics & Stats., etc.*, J. L. Bhendia ; *Pub. Health & Family Plng.*, Kumari Vimla Verma ; *Local Govt. (Urban)*, Ranvijay Pratap Singh.

Deputy Ministers

Home, Pub., Youth Welfare & Sports, C. P. Shekhar ; *Revenue, Land Records, Land Reforms, etc.*, Durgadas Suryavanshi ; *Agri., Co-opn., Food & Civil Supplies*, Shobharam Patel ; *Edn., Vocational Edn., etc.*, D. S. Porte ; *Pub. Works*, Kumari Kamladevi ; *Panchayat & Comm. Devpt., P.H.E.*, Kanhaiyalal Kosariya.

Secretariat

Chief Secretary, S. N. Verma ; *Principal Secy., Finance & Plng.*, M. Y. Godbole ; *Addl. Secy. & Prodn. Commr.*, S. V. H. Pagare ; *Addl. Secy., Home*, Manohar Keshav ; *Secs.*, M. M. Khar (*Electricity & Irrigation*) ; L. K. Malhotra (*G.A.D.*) ; K. C. S. Acharya (*Food, Agri. & Co-opn.*) ; U. S. Bajpai (*P.W.D.*) ; R. K. Khanna (*Panchayat & Comm. Devpt.*) ; O. R. Siddiqi (*Law*) ; M. S. Singhdeo (*Revenue & Local Govt.*) ; R. N. Chopra (*Edn.*) ; B. M. Date (*Health*) ; R. P. Kapoor (*Commerce & Ind.*) ; M. N. Buch (*Capital Project and Town & Country Plng.*) ; Arun Pandya (*Spl. — Agri. & Addl. Prodn. Commr.*) ; *Commrs.*, Krishnan (*Bhopal Divn.*) ; Baldeo Singh (*Gwalior Divn.*) ; B. J. Heerji (*Indore Divn.*) ; P. N. Abbi (*Raipur Divn.*) ; S. L. Sharma (*Bilaspur Divn.*) ; Bramh Swaroop (*Sagar Divn.*) ; Jagat Swaroop (*Rewa Divn.*) ; R. K. Pandey (*Chambal Ayacut*).

Principal Officials

Registrar of Co-op. Socs., J. N. Kaul ; Dirs., A. K. Das (*Tribal Welfare*) ; V. S. Tripathi (*Inds.*) ; A. S. Bhatnagar (*Panchayat & Social Welfare*) ; O. P. Mehra (*Agri.*) ; A. V. Kaveeshwar (*State Lotteries*) ; S. Satyam (*Public Instruction*) ; R. C. Dube (*Food & Civil Supplies*) ; R. S. Dikshit (*Inf. & Publicity*) ; K. B. L. Bhargava (*Stats. & Economics*) ; N. C. Kaushash (*Veterinary Services*) ; Dr. Prakash Narayan (*Health Services*) ; S. R. Beedkar (*Tech. Edn.*) ; Dr. T. C. Jain (*Jt. Dir., Coll. Edn.*) ; *Conservator-in-Chief of Forests*, K. N. Mishra ; *Chief Conservators of Forests*, N. K. Sharma (*Nationalisation*) ; S. Pashupati (*Gen.*) ; *Rehab Commr.*, R. S. Khanna ; *Labour Commr.*, D. Y. Manawar ; *Chmn., M.P.E.B.*, Vacant ; *Gen. Manager, M.P.S.R T C.*, N. S. Sethi.

High Court, Jabalpur.

Chief Justice ; P. K. Tare ; *Judges :* Shivdayal, R. J. Bhave, A. P Sen, G. P. Singh, S. M. N. Raina, K. K. Dube, R. K. Tankha, M. L. Malik, B. R. Dube, U. N. Bhachawat, C. P. Sen, S. S. Sharma ; *Ad-Hoc :* N. M. Golvalker ; *Indore Bench :* G. L. Oza, N. C. Dwivedi, J. S. Verma, G. G. Sohani ; *Gwalior Bench :* S. R. Vyas, R. L. Murab.

MAHARASHTRA, Bombay.

Governor : Ali Yavar Jung.

Ministers

Chief Minister in charge of Gen. Admn., Home, Plng., Energy, Inf. & Pub., etc., S. B. Chavan ; *Irrigation, Prohibition & Excise*, V. B. Patil ; *Finance, Small Savings, Cult. Affairs, Sports & Youth Welfare*, M. D. Chaudhari ; *Industries (including Printing Presses), Leg. Affairs*, N. M. Tidke ; *Revenue including Rehab., Urban Devpt., New Townships, Tourism, Protocol, Auqaf*, Dr. Rafiq Zakaria ; *Co-opn., M.S.R.T.C.*, Y. J. Mohite ; *Bldgs. & Communications, Housing, Khar Lands, Law & Judiciary,*

A. R. Antulay; *Pub. Health, Social Welfare,* Mrs. Pratibha Patil; *Labour, Animal Husb., Dairy Devpt., Fisheries,* S. B. Patil; *Rural Devpt.,* S. A. Solanke; *Agriculture,* S. G. Pawar; *Forests, Transport, Jails,* R. J. Deotale; *Food & Civil Supplies,* Ratnappa Kumbhar; *Edn.,* Mrs. Prabha Rao.

Ministers of State

Plng., Revenue, Law & Judiciary, Pub. & Inf., B. J. Khatal; *Irrigation & Agr.,* K. M. Patil; *Urban Devpt., New Township, Housing,* P. K. Kunte; *Industries, Energy,* U. N. Gaikwad; *Home, Forests,* R. P. Valvi; *Edn., Labour,* R. M. Pande; *Social Welfare, Cult. Affairs, Sports, Dairy Devpt., etc.,* S. S. Shinde; *Ports, Fisheries, Prohibition & Excise, Tourism,* R. V. Belose; *Co-opn., Bldgs. & Communications, Rural Devpt.,* N. S. Sapkal; *Food & Civil Supplies, Transport (including M.S.R.T.C.), Jails,* Jagesh Desai; *Public Health, Protocol,* Dr. Leon D'Souza.

Lok Ayukta of Maharashtra, S. P. Kotwal; *Upa Lok Ayukta,* L. M. Nadkarni (*Office:* Bungalow No. A-4, Madam Cama Rd., Bombay 400021).

Secretariat, Sachivalaya, Bombay 400032.

Chief Secretary, Gen. Adm., D. D. Sathe, I.C.S.; *Addl. Chief Secy.,* H. Nanjundiah; *Secs., Gen. Adm.,* K. A. Gafoor, K. G. Paranjpe, S B. Kulkarni; *Jt. Secy.,* K. Sivarama Krishnan; *Secs.:* B. P. Dalal (*Law & Judiciary & Remembrancer of Legal Affairs*); Dr. A. S. Naik (*Spl. Secy., Industries, Energy & Labour*); K. B. Srinivasan (*Rural Devpt.*); M. S. Palnitkar (*Social Welfare, Cult. Affairs, Sports & Tourism*); Vacant (*Urban Devpt., Pub. Health & Housing*); M. D. Kale (*Pub. Works & Housing*); M. V. Deo (*Revenue & Forests*); K. K. Moghe (*Edn.*); V. R. Deuskar (*Irrigation*); L. S. Lulla (*Agri. & Forests*); V. Subramanian (*Plng. & Addl. Devpt. Commr.*); P. G. Gavai, P. V. Nayak (*Home*); P. D. Kasbekar (*Finance*); V. Prabhakar (*Food & Civil Supplies*); S. Ramakrishna (*Revenue & Forests and Dir. of Resettlement of Project Affected Persons*). *Metropolitan Commr. (Chief Executive, Bombay Metropolitan Regnl. Authority),* K. V. Seshadri.

Heads of Departments

Accommodation Controller, R. S. Rajadhyaksha; *Industries Commr.,* P. C. Nayak; *Registrar of Firms,* S. B. Shinde; *Chief Conservator of Forests (Pune),* S. S. Buit; *Charity Commr.,* P. S. Dhamane; *Inspector-Genl. of Prisons (Pune),* V. K. Toraskar; *Commrs.:* A. D. Samant (*Prohibition & Excise*); M. G. Rangnekar (*Food & Drug Adm.*); B. V. Laud (*Labour*); S. Ramamoorthy (*Sales Tax*); J. G. Kanga (*Co-opn. & Registrar of Co-op. Socs., Pune*), Smt. Malti Tambay-Vaidya (*Tourism*); R. A. Zubairy (*Settlement & Dir. of Land Records & Inspector-Genl. of Regns.*); *Directors:* Dr. Smt. Chitra Naik (*Edn.—Pune*), Dr. V. N. Rao (*Health Services*), Srinivas Chopade (*Agriculture — Pune*), A. G. Kalawar (*Fisheries*), R. C. Khare (*Animal Husb. — Pune*), R. U. Padmawar (*Ayurved*), J. D. Jadhav (*Emp.*), Dr. G. S. Mutalik (*Medical Edn. & Research*), Smt. T. V. Sabnis (*Sports — Pune*), R. M. Humane (*Cult. Affairs*); *Chmn., Maharashtra State Board of Secondary Edn., Pune,* Dr. N. K. Upasani; *Chmn., Maharashtra Housing Board (Kala Nagar, Bandra, Bombay* 400051), P. G. Kher; *Chmn., M.S.E.B.,* B. C. Cariappa; *Divisional Commrs.,* Dr. M. N. Desai (*Bombay Dn.*), S. P. Mohoni (*Pune Dn.*), B. K. Chougule (*Aurangabad Dn.*), K. B. Mandlekar (*Nagpur Dn.*).

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Chmn., J. C. Agarwal; *Gen. Manager,* K. K. Uppal.

High Court, Mayo Rd., Bombay 400032.

Chief Justice, R. M. Kantawala; *Judges:* V. D. Tulzapurkar, B. N. Deshmukh, J. R. Vimadalal, V. S. Deshpande, D. P. Madon, M. N. Chandurkar, M. S. Apte, G. N. Vaidya, N. D. Kamat, S. B. Bhasme, M. H. Kania, S. K. Desai, S. M. Hajarnavis, R. K. Joshi, B. A. Masodkar, C. S. Dharmadikari, P. M. Mukhi, P. S. Shah, B. M Sapre, N. B. Naik, D. M. Rege, J. M. Gandhi, R. L. Aggarwal, B. Lentin, P. B. Sawant, A. R. Shimpi, R. P. Bhatt, U. R. Lalit, C. T. Dighe; *Registrar,* P. G. Karnik; *Advocate-General,* Ramrao W. Adik; *Sheriff of Bombay,* Prof. T. V. Ramanujam; *Dy. Sheriff,* S. V. Kondaskar.

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Collector of Bombay & Bombay Suburban Dist., A. M. Deosthale, I.A.S.

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Inspector-General of Police, M. G. Wagh; *Spl. Inspector-General of Police,* E. S. Modak, I.P.; *Asstt. Inspectors-General of Police,* D. Ramachandran, I.P.S., V. V. Deo, I.P.S., V. K. Talwar, I.P.S.; *P.R.O.,* V. K. Joshi.

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Director, A.C. & P.I. Bureau & Spl. Inspectors-General of Police, E. S. Modak, M. G. Mugve; *Dy. Commr. of Police/Supdt. of Police,* S. V. Bhave, I.P.S.

Greater Bombay Police Force, Dr. D. Naoroji Rd., Opp. Jyotiba Phule Market, Bombay 400001.

Commissioner of Police, S. V. Tankhiwale; *Addl. Commrs. of Police,* S. S. Jog, P. R. Parthasarathy, R. S. Kulkarni; *Dy. Commrs. of Police,* A. K. Ankola, D. H. Crawford, A. S. Samara, Sudhakar Dev, R. C. Dembla, V. Balachandran, V. G. Vaidya, S. D. Panwalkar, R. Y. Deshpande, M. B. Dhume, S. P. Bodhanwalla.

Directorate of Information & Public Relations, Sachivalaya, Bombay 400032.

Chief Dir. of Inf. & Public Relations: I. R. Mathur; *Directors,* Vacant (*Inf.*), Ram Gabale (*Films*).

Maharashtra State Road Transport Corporation, Maharashtra Vahatuk Bhavan, Bellasis Rd., Bombay 400008.

Chmn., B. N. Adarkar; *Vice-Chmn.,* P. V. Nayak; *Gen. Manager,* S. Jambunathan; *Chief Accounts Officer,* P. C. Roy; *Dy. Gen. Manager (Mech. Engg.),* G. G. Phadke; *Dy. Gen. Manager (I.O. & M.),* V. R. Miranda; *Dy. Gen. Manager (Stores & Purchase),* V. B. Kulkarni; *Dy. Gen. Manager (Traffic),* D. R. Chavan; *Div. Controller (Admn.),* V. B. Thorat; *Pub. Relations Officer,* S. Y. Gupte.

Directorate of Economics and Statistics, D. D. Bldg., Old Custom House, Bombay 400 001.

Director, M. A. Telang; *Joint Dirs.,* D. R. Deoras, V. D. Mahajan, D. S. Kulkarni.

Office of the Dairy Development Commissioner, Azad Maidan, Bombay 400001.

Dairy Development Commissioner, M.S., Dr. V. M. Patil; *Dy. Dairy Development Commr. (P. & P),* Y. R. Karnik; *Dairy Development Officer (Ext.),* W. V. Malse; *Dairy Engineer (M),* Dr. A. P. Deshmukh.

Office of the General Manager, Greater Bombay Milk Scheme, Worli Dairy, Bombay 400018.

General Manager, N. S. Dave; *Dairy Manager,* N. R. Paranjpe; *Controller, Milk Transport,* D. R. Engineer;

Controller (*P. & D.*), T. G. Dandekar ; *Controller of Milk Accounts & Financial Adviser*, S. S. Utpat ; *Pub. Relations Officer*, Vacant.

Public Service Commission, Bank of India Bldg., Mahatma Gandhi Rd., Bombay 400023.

Chairman, Dr. M. N. Wankhade ; *Secretary*, Y. S. Kulkarni.

Govt. of India Tourist Office, 123, Maharshi Karve Rd., Bombay 400020.

Director, Mrs. S. Jagannathan ; *Asstt. Directors*, Mrs. V. Arni, K. S. Sandanam, Mrs. N. Malvi, R. P. Chopra.

B.E.S.T. Undertaking, BEST House, Bombay 400039.

General Manager, P. B. Kerkar ; *Dy. Gen. Manager*, P. G. Patankar ; *Secy.*, M. A. Joshi ; *Chief Engineer* (*Supply*), A. P. Shenoy ; *Chief Engineer* (*Transport*), M. H. Narurkar ; *Chief Traffic Manager*, C. D. Jeffereis.

Central Railway, Hqrs. Office, Victoria Terminus, Bombay 400001.

General Manager, B. D. Mehra ; *Sr. Dy. Gen. Manager*, V. Giridharadas ; *Dy. Gen. Manager* (*Gen.*), N. C. Jerath ; *Chief Pub. Relations Officer*, Prem Sagar ; *Chief Personnel Officer*, M. R. N. Moorthy ; *Chief Engr.*, M. I. Chhaya ; *Chief Engr.* (*Const.*), S. L. Gupta ; *Chief Engr.* (*Survey & Const.*), G. A. Sheriff ; *Chief Operating Supdt.*, H. L. Verma ; *Chief Commercial Supdt.*, K. K. Pooviah ; *Chief Mechanical Engr.*, L. R. Gosain ; *Chief Signal & Telecomm. Engrs.*, M. M. Agerwala, S. A. Srinivasan (*Const.*) ; *Chief Elec. Engrs.*, S. Nagarajan, K. P. Ramalingam (*Const.*) ; *F. A. & C. A. Os.*, R. R. Sud, P. C. Gupta (*C*) ; *Chief Medical Officer*, Dr. Braj Mohan ; *Controller of Stores*, S. G. Ghosalkar ; *Chief Plng. Officer*, Krishna Chandra.

Western Railway, Hqrs. Office, Churchgate, Bombay 400020.

General Manager, A. K. Gupta ; *Sr. Dy. Gen. Manager*, Vacant ; *Dy. Gen. Manager* (*General*), B. N. Dutta ; *Chief Pub. Relation Officer*, P. C. Wadhwa ; *Comml. Pub. Officer*, J. Coutinho ; *Statistical Officer*, R. N. Sharma ; *Law Officer*, R. B. Banerjee ; *Chief Personnel Officer*, H. V. Samuel; *F.A. & C.A.Os*, G. M. Gidvani, R. Srinivasan (*Const.*); *Chief Engrs.*, P. R. Verghese ; R. S. Barve (*Const.-Ahmedabad*), J. S. Khergamvala (*S. & C. Churchgate*) ; *Chief Electl. Engr.*, T. S. Vishwanathan ; *Chief Signal & Telecomm. Engrs.*, V. Parthasarathy, V. U. Shenai (*Const.*) ; *Chief Mechanical Engr.*, Vacant ; *Chief Operating Supdt.*, M. G. Punoose ; *Chief Commercial Supdt.*, M. P. Sathaye ; *Chief Commercial Supdt.* (*Claims*), G. F. Velloze ; *Chief Security Officer*, H. C. Singh ; *Chief Medical Officer*, Dr. B. D. Harbola.

Railway Service Commission, Churchgate Stn. Bldg., 1st Floor, Bombay 400020.

Chmn., Nardeo Snatak ; *Mem.-Secy.*, F. J. Edulji ; *Asst. Secy.*, R. Natarajan.

Metropolitan Transport Project (Railways), Churchgate Stn. Bldg., Bombay 400020.

MANIPUR, Imphal.

Governor : L. P. Singh.

Ministers*

Chief Minister, Rajkumar Dorendra Singh ; *Ministers*, Rishang Keishing, R. K. Ranbir Singh, Kh. Chaoba Singh, Y. Yaima Singh, L. Chandramani Singh, T. P. Kiulengpou and Haokholal Thangjom.

Ministers of State*

M. Gouramani Singh, Th. Chaoba Singh, O. Joy Singh, H. Thoithoi Singh, K. Borthakur Sharma, Kh. Nimaichand Singh, Holkhomang Haokip, S. Jayantakumar Singh and Md. Jalaluddin.

Deputy Ministers*

W. Komol Singh and Sonkhothang Ashon.

Secretariat

Chief Secretary, S. M. Krishnatry ; *Director of Medical & Health & Family Plng. Services*, Nanda Babu Roy ; *Registrar, Co.-op. Socs.*, Achou Singh ; *Publicity Officer*, Y. Saratchandra Singh ; *Finance Secy.*, P. Dang. (*High Court :* Given under Assam).

MEGHALAYA, Shillong.

Governor : L. P. Singh.

Ministers

Chief Minister, Political, Pub. Relations, Gen. Adm., Home, Admve. Reforms, Re-organisation, Cabinet Affairs, Edn., Williamson A. Sangma ; *Industries, Trade, Power, Mining & Geology, Border Areas Devpt., Supply, Transport, & Communications, Tourism, etc.*, Stanley D. D. Nichols Roy ; *Plng., Finance, Excise, Law, etc.*, B. B. Lyngdoh ; *Agri., including Irrigation, Animal Husb. & Fisheries, Revenue, Comm. Devpt., Co-op., etc.*, Edwinson Bareh ; *Health & Family Plng., Mun. Adm., Labour, Relief & Rehabilitation, Displaced Persons, etc.*, Sandford K. Marak ; *Public Works, etc.*, P. R. Kyndiah.

Ministers of State

Public Relations, Edn., Social Welfare, Sports, etc., Darwin D. Pugh ; *Forests, Co-opn., Fisheries*, Grohonsing Marak. Peter Marbaniang, Selseng Marak, B. B. Shallam.

Secretariat

Chief Secretary & Devpt. Commr., N. K. Rustomji, I.C.S. ; *Financial Commr. & Spl. Secy., Finance, Excise, Plng., etc.*, Ramesh Chandra ; *Secs. :* J. C. Nampui (*Relief & Rehab., Pub. Health Engg., Health & Family Plng., etc.*) ; D. W. M. Duncan (*Border Areas Devpt., Pub. Relations, etc.*) ; R. Natarajan (*Finance, Excise, etc.*) ; S. L. Khosla (*Power, Mining & Geology, Tourism, Forests, etc.*) ; B. W. Ray (*Home, Parl. Affairs, etc.*) ; Dilip Singh (*Agri., Animal Husb., Fisheries, Comm. Devpt. Co-opn., etc.*) ; T. Cajee (*Gen. Adm., Home* (*Passport Branch*), *Jails, Parl. Affairs, etc.*) ; F. Kharkongor (*Pub. Works, Town & Country Plng., etc.*) ; *Addl. Secs. :* J. K. Bagchi (*Finance, Excise, Regn., etc.*) ; K. K. Sinha (*Agri. & Comm. Devpt.*) ; P. Arunachalam (*Pub. Health Engg.*) ; J. M. Phira (*Transport, Communications, Edn., Supply & Trade, etc.*).

Principal Officials

Dir. of Finance, Accounts & Treasuries, D. S. Khongdup ; *Secy.-cum-Gen. Manager, Farmers Multipurpose Co-op. Socs.*, H. W. T. Syiem ; *Dy. Commrs.*, T. Aanok (*Tura*) ; V. Kohli (*Shillong*) ; R. P. Sinha (*Jowai*).

(High Court : Given under Assam).

MIZORAM, Aizawl.

Lt. Governor : S. K. Chibber.

Ministers

Chief Minister in charge of Political, Home, Gen. Admn., Public Works, Power & Electricity, etc. etc., Ch. Chhunga ; *Finance, Inds., Labour & Emp.*, Khawtinkhuma ; *Supply & Transp., Law & Judl., Sectt. Adm., Parl. Affairs*, J. L. Sangzuala ; *Plng., Agri., Animal Husb., Pub. Relations, Tourism, etc.*, R. Thangliana ; *Edn. & Revenue*, Vaivenga ; *Medical & Family Plng., etc.*, P. B. Nikhuma ; *Comm. Devpt. and Co-opn. and Forests*, Zalawma.

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* A new Ministry with Rajkumar Dorendra Singh as *Chief Minister* and Reisang Keisang, Rajkumar Ranbir Singh, P. P. Kuletengapao and Sinam Bijay Singh as *Ministers* assumed office on July 23, 1975.

Dy. Minister

Co-opn., Soil Conservation, Medical & Family Plng., Local Admn., B. P. Nikhuma.

Secretariat

Chief Secretary, R. M. Agrawal, I.A.S. ; *Secs. :* K. B. Gurung (*Plng., Local Adm.*) ; Lalkhama (*Finance*) ; Amti Sarkar (*Law & Judl., Local Adm.*) ; S. R. Vala (*PWD & Pub. Health Engg.*) ; F. Pahnuna (*Gen. Adm., Inf. & Pub. Relations, Power & Elect., Labour & Emp. etc.*).

Principal Officials

Inspector-Genl. of Police, I. J. Verma ; *Dirs. :* Baleswar Rai (*Supply & Transport*) ; Dr. G. N. Chatterjee (*Edn.*) ; N. C. Bhattacharjee (*Agri.*) ; Vacant (*Health Services*) ; *Dy. Commrs.*, P. Rohmingthanga (*Aizawal Dist.*) ; A. Baijal (*Lunglei Dist.*) ; S. P. Agarwal (*Chhimtuipui Dist.*) ; *Liaison Office, Govt. of Mizoram, F-806, Curzon Rd. Hostel, New Delhi* 110001.

NAGALAND, Kohima.

Governor : L. P. Singh.

Secretariat

Chief Secretary, H. Zopianga ; *Secs.*, Sashimeren Aier (*Plng. & C.D.*) ; V. K. Subramaniam (*Finance, Revenue & Excise*) ; Z. Obed (*Home*) ; N. I. Jamir (*Agri., Fisheries & Co-opn.*) ; I. Longkumar (*Pub Works, Electricity*) ; O. Kathipri (*Edn., Research, etc.*) ; N. Jakhalu (*Medical*) ; J. S. Halliday (*Soil Conservation & Forests*).

Principal Officials

Chief Conservator of Forests T. Jeyadev ; *Dirs. :— Agri.*, I. Panger Ao ; *Edn.*, Yajen Aier ; *Health Service*, T. Ao ; *Inf., Pub. & Tourism*, R. Rattan ; *Industry*, V. Sawney ; *Supply*, S. Alluewallja ; *Vet. & Animal Husb.*, Dr. Sasiekuo ; *Inspector-Genl. of Police*, L. S. Varma.

(High Court : Given under Assam).

ORISSA, Bhubaneswar.

Governor : Akbar Ali Khan.

Ministers

Chief Minister in charge of Home, Political & Services, Industries, Plng., etc., Mrs. Nandini Satpathy ; *Finance & Excise*, Binayak Acharya ; *Edn., Youth Services, Tourism & Cult. Affairs*, J. N. Das Mohapatra ; *Food, Civil Supplies & Commerce*, Sriballav Panigrahi ; *Agri., Co-opn., Transport, etc.*, Lakshman Malik.

Ministers of State

Comm. Devpt. & Panchayat Raj, Mohan Nayak ; *Mining & Geology*, Krupasindhu Bhoi ; *Agri. & Co-opn.*, Bhagirathi Gomango ; *Labour, Emp., etc.*, Dr. B. Baliarsingh ; *Irrigation & Power*, Dibyalochan S. Deo ; *Tribal & Rural Welfare*, Ramachandra Ulaka ; *Law, Forests, etc.*, Brahmananda Biswal ; *Industries, Plng., etc.*, Kahnucharan Lenka ; *Health & Urban Devpt.*, Somnath Rath.

Dy. Ministers

Irrigation & Power, Kuanria Majhi ; *Tourism & Cult. Affairs*, Sheikh Matlub Ali ; *Edn. & Youth Services*, Jagannath Patnaik.

Secretariat

Chief Secretary & Devpt. Commr. and Secy., Political & Services, V. S. Mathews ; *Addl. Chief Secy. & Addl. Devpt. Commr. and Secy., Political & Services*, J. A. Dave ; *Secs.*, B. K. Mishra (*Plng. & Co-ordn.*) ; R. N. Das (*Finance*) ; K. Ramamurty (*Spl. Projects*) ; K. Srinivasan (*Agri. & Co-opn.*) ; B. V. Raman (*Inds.*) ; D. P. Tripathy (*C.D. & P.R.*) ; H. N. Das Mohapatra (*Edn. & Youth Services*) ; A. N. Tiwari (*Tourism & Cult. Affairs*) ; D. K. Chatterjee (*Forests & Animal Husb.*) ; N. C. Behuria (*Health & Family Plng., Urban Devpt.*) ; P. Mishra (*Home*) ; N. R. Hota (*Irrigation & Power, Mining & Geology*) ; A. C. Padhi (*Works*) ; S. K. Mohapatra (*Transport*) ; Bhupinder Singh (*Tribal & Rural Welfare*) ; L. Mohapatra (*Law*) ; S. M. Pattanaik (*Revenue & Excise*) ; D. P. Tripathy (*Rural Devpt.*) ; M. K. Kikreja (*Food & Civil Supplies*) ; R. C. Patra (*Labour, Emp. & Housing*).

Principal Officials at Bhubaneswar

Dirs., G. P. Mohanty (*Health & Family Plng.*) ; G. C. Sengupta (*Agri. & Food Prodn.*) ; Dr. C. Mishra (*Stats. & Economics*) ; A. N. Tiwari (*Pub. Relations, Tourism & Cult. Affairs*) ; D. C. Mishra (*Pub. Instrn. — H.E. & Schools*) ; R. K. Behera (*Mines*) ; *I.G. of Prisons*, S. S. Ahmed ; *Chief Engrs.*, S. C. Tripathy (*Irrigation*) ; J. M. Pattanaik (*Electricity & Electl. Projects*) ; B. R. Swamy (*R. & B.*) ; D. N. Singh Deo (*Pub. Health*) ; *Chmn., O.S.E.B.*, K. C. Gantayat ; *Labour Commr.*, Laxmidhar Mishra ; *Commr., Endowments*, Krupasindhu Mishra.

Principal Officials at Cuttack

Chmn., Public Service Commn., Vacant ; *Commrs.*, N. K. Panda (*Central Divn.*) ; R. N. Mohanty (*Treasury*) ; T. U. Vijayasekharan (*Transport*) ; G. C. Das (*Land Reforms*) ; *Inspector-Genl. of Police*, N. Swain ; *Chief Conservator of Forests*, Sripal Jee ; *Dirs.*, P. M. Mohapatra (*Export Promotions & Mktg.*) ; F. A. Moses (*Industries*) ; Dr. Pyar Mohan Mishra (*Fisheries*) ; J. N. Panda (*Animal Husb. & Vet. Services*).

High Court, Cuttack.

Chief Justice, G. K. Mishra ; *Judges*, S. K. Ray, S. Acharya, R. N. Mishra, B. K. Ray, K. B. Panda, P. K. Mohanti ; *Registrar*, D. Hota ; *Advocate-General*, Gangadhar Rath.

PONDICHERRY, Pondicherry.

Lt.-Governor : Chhedi Lal.

Secretariat

Chief Secretary, M. Chandramouli, M.A., I.A.S. ; *Secs. :* R. Badrinath (*Finance*) ; R. C. Ilange (*Revenue*) ; T. C. A. Rangadurai (*Health & Devpt.*) ; A. Chandrasekhara Menon (*Law & Labour*) ; R. Srivastava (*Secy. to Administrator*).

Principal Officials

Principal Dist. & Sessions Judge and Chief of Judl. Service, David Annusamy ; *Inspector-Genl. of Police*, Nikhil Kumar Sinha ; *Dirs. :* Dr. N. Selvaradja (*Health & Family Plng.*) ; J. Deivasigamani (*Pub. Works*) ; K. A. Shaukat Ali (*Agri.*) ; A. Gnanasambandam (*Inds.*) ; M. Kannan (*Fisheries*) ; S. Joseph Basil (*Harijan & Social Welfare*) ; V. Satyanathan (*Elect.*) ; Dr. M. A. Swaminathan (*Animal Husb.*) ; A. Mohandoss (*Inf., Pub. & Tourism*) ; C. D. Dayal (*Rural Devpt.*) ; V. Venkatasamy (*Transport*) ; *Labour Commr.*, R. Ramanujam ; *Registrar of Co-op. Socs.*, P. R. Ramanathan ; *Administrators :* S. Seetharaman (*Karaikal*) ; S. Malaichamy (*Mahe*) ; C. V. S. Rama Rao (*Yanam*).

PUNJAB, Chandigarh.

(*Chief Commissioner, Chandigarh*, N. P. Mathur.)

Governor : Mahendra Mohan Choudhury.

Ministers

Chief Minister in charge of Gen. Admn., Home, Adm. of Justice, Vigilance, Inds. & Indl. Co-optves., Pub. Relations, Cult. Affairs, Co-opn., Tourism, etc., Giani Zail Singh ; *Revenue, Relief & Rehab., Land Reforms, Leg., Elections, Sports, etc.*, Umrao Singh ; *Finance, Plng., Labour & Emp.*, *Local Self-Govt., Urban Devpt., etc.*, Hans Raj Sharma ; *Edn., Dairying, Medical Edn.*, Gurmail Singh ; *Agri., Forests, etc.*, Master Gurbanta Singh ; *Excise & Taxation, Tech. Edn. & Jails*, Yash Pal.

Ministers of State

P.W.D., Tourism, etc., Joginder Pal Pandey ; *Comm. Devpt., Panchayati Raj, Animal Husb., Fisheries, etc.*, Santokh Singh Randhawa ; *Social Welfare, Welfare of Scheduled Castes & Backward Classes, etc.*, Miss Sarla Prasher ; *Pub. Health, Cottage Inds., Indl. Trg. & Rural Electrification*, Sohan Singh Jalalusman ; *Transport, Civil Aviation, etc.*, Dilbagh Singh Daleke ; *Health & Family Plng., etc.*, Balbir Singh ; *Irrigation, Power, etc.*, Gurbaksh Singh Sibia ; *Food & Supplies*, Gurdarshan Singh ; *Housing, Slum Clearance, etc.*, Mrs. Gurbrinder Kaur Brar.

Deputy Ministers

Bal Ram, Khushal Bahl.

Chief Parliamentary Secretary

Gurcharan Singh Nihalsinghwala.

Secretariat

Chief Secretary, R. S. Talwar, I.A.S. ; *Fin. Commr., Revenue & Presiding Officer, Sales Tax Tribunal*, N. Khosla ; *Fin. Commr., Excise & Taxation*, H. S. Chhina ; *Secs. :* S. P. Bagla (*Finance*) ; R. P. Ojha (*Home*) ; R. C. Kapila (*PWD, B. & R., Power, etc*) ; Mrs. G. S. Sekhon (*Health & Family Plng., Social Welfare, etc.*) ; K. D. Vasudeva (*Transport, Food & Supplies*) ; K. S. Bains (*Edn., Languages & Sports*) ; B. B. Mahajan (*Labour & Emp., Plng.*) ; N. N. Vohra (*Housing, Local Govt., etc.*) ; *Commrs.*, Paramjit Singh (*Devpt.*) ; B. B. Mahajan (*Plng.*) ; S. L. Kapur (*Inds., Indl. Trg. & Pub. Relations*) ; *Dirs. :* Pritam Singh Hoshiarpuri (*Agri.*) ; Man Mohan Singh (*Pub. Instrn.*) ; C. D. Khanna (*Emp. & Labour Commr.*) ; Rajinder Singh (*Food & Supplies*) ; Sohan Singh (*Health Services & Family Plng.*) ; R. P. Puri (*Housing & Urban Devpt.*) ; Hardial Singh (*Inds. & Indl. Trg.*) ; S. K. Tuteja (*Local Govt.*) ; S. C. Pandit (*Lotteries*) ; D. S. Chowdhary (*Panchayats & Comm. Devpt.*) ; H. G. Trighatia (*Social Welfare, Welfare of S.C. & B.C.*) ; Harbel Singh (*State Transport*) ; Rajnish Kumar (*Languages*) ; Jagjit Singh Sidhu (*Pub. Relations — Addl.*) ; *I.G. of Police*, D. S. Garewal ; *I.G. of Prisons*, Parkash Chand ; *Chief Engrs.*, Harbans Singh (*Projects & Irrigation Works*) ; G. S. Tokhi (*P.W.D. & B. & R.*) ; D. R. Singal (*Pub. Health*) ; D. K. Sehgal (*Tech. Edn.*).

High Court, Punjab & Haryana, Chandigarh.

Chief Justice, R. S. Narula ; *Judges*, Balraj Tuli, A. D. Koshal, S. S. Sanchawalia, P. C. Jain, Manmohan Singh Gujral, S. C. Mital, Debi Singh Tewatia, B. S. Dhillon, Pritam Singh Pattar, M. L. Verma, Gurnam Singh, Mela Ram Sharma, R. N. Mittal, Sukhdev Singh Sidhu, Ajit Singh Bains, Kulwant Singh Tiwana ; *Registrar*, Surinder Singh.

RAJASTHAN, Jaipur.

Governor : Dr. Jogendra Singh.

Lok Ayukta, I. D. Dua.

Ministers

Chief Minister in charge of Appts., G.A., Political, Cabinet, Tourism, Home, Industries, etc., Hari Deo Joshi ; *Revenue & Land Reforms, Forests, Devasthan, etc.*, Paras Ram Maderna ; *Finance, Plng., Economics & Statistics, Excise & Taxation, State Enterprise, etc.*, Chandan Mal Baid ; *Agri., Animal Husb., Food & Civil Supplies, etc.*, Shiv Charan Mathur ; *Irrigation, P.W.D., Rajasthan Canal, etc.*, Hiralal Devpura ; *Edn., Law & Justice, etc.*, Khet Singh ; *Medical Health, Transport, Labour & Emp., Social Welfare, etc.*, Mohanlal Chhangani ; *Co-opn., Town Plng., Local Self-Admn., Panchayat & Comm. Devpt., etc.*, Ram Narayan Chaudhuri.

Ministers of State

Pub. Relations, Medical & Health, Ayurved, Social Welfare, Labour & Emp., Smt. Kamla Beniwal ; *Minerals, Finance, Plng., Economics & Statistics, etc.*, Jujhar Singh ; *Forests, Devasthan, Khadi & Gramodhyog, Revenue & Land Reforms, etc.*, Mool Chand Meena ; *Edn., Law & Justice, Elections, Wakfs, etc.*, Farukh Hasan ; *Agri., Town Plng., Animal Husb., etc.*, Munshi Lal Mahavar ; *Apptt., G.A., Home, Industries, Famine & Flood Relief, etc.*, Gulab Singh Shaktawat ; *Printing & Stationery, Panchayat & Devpt., Jails*, Banwari Lal.

Secretariat

Chief Secretary, J. K. Bhanot ; *Secs. :* R. C. Sood (*Agri. Prodn.*) ; B. Hooja (*Pub. Grievances*) ; J. S. Mehta (*Relief*) ; B. P. Sood (*Edn.*) ; N. C. Bhatnagar (*Food*) ; J. S. Singhvi (*State Enterprises*) ; D. C. Joseph (*Revenue*) ; M. S. Sadasivan (*Finance*) ; R. S. Chouhan (*Home Affairs*) ; Sher Singh (*Rehab.*) ; A. L. Rongta (*Commr., Deptl. Enquiries*) ; Tej Kumar (*L.S.D., Town Plng.*) ; Anil Bordia (*Agri.-Spl. Schemes*) ; K. L. Baraya (*Medical & Health*) ; Naresh Chandra (*Industries*) ; V. B. L. Mathur (*Deptt. of Personnel*) ; V. I. Rajagopal (*Agri., Animal Husb. & Co-opn.*) ; R. Ramakrishna (*Spl.-Finance*) ; D. N. Prasad (*Spl.-Plng.*) ; S. P. Vishnoi (*Spl.-Food, Relief & Rural Works Programme*) ; S. R. Singh (*Law Deptt.*) ; B. N. Mathur (*Dairy Devpt.*).

Principal Officials

Admr., Rajasthan Canal Board, Hari Singh Chaudhary ; *Inspector-Genl. of Police*, Ganesh Singh ; *Inspector-Genl. of Prison*, Veer Singh ; *Chief Conservator of Forests*, K. K. Gupta ; *Labour Commr.*, N. K. Joshi ; *Registrar of Coop. Socs.*, B. K. Zutsi ; *Dirs., :* Dr. P. D. Mathur (*Medical and Health Services*) ; M. K. Doshi (*Animal Husb.*) ; Ramendranath Chaudhary (*College Edn.*) ; Satish Kumar (*Primary and Secondary Edn.*) ; B. K. Jain (*Tech. Edn.*) ; R. L. Mishra (*Industries*) ; Ranvir Singh (*Agri.*) ; R. N. Sharma (*Economics & Stats.*) ; M. L. Kakkar (*Pub. Relations*) ; K. M. Sahai (*Social Welfare*) ; L. C. Gupta (*Transport*) ; S. D. Gupta (*Emp.*) ; A. C. Mittar (*Mines & Geology*) ; D. R. Chaturvedi (*Ayurveda*) ; Mrs. Janak Gorwani (*Tourism*) ; *Chmn. Pub. Service Commn.*, R. S. Kapoor.

High Court, Jodhpur.

Chief Justice, Prakash Narain Shinghal ; *Judges*, Ved Pal Tyagi, Kan Singh, Chand Mal Lodha, Sohan Nath Modi, Jagdish Prasad Jain, Mohan Lal Joshi ; *Addl. Judges*, Kalyan Dutt Sharma, Dwarka Prasad Gupta, Mohan Lal Shrimal ; *Registrar*, Suraj Narain Deedwania ; *Advocate-General*, Dr. M. L. Singhvi.

SIKKIM, Gangtok.

Governor : B. B. Lal.

Chief Minister, Kazi Lhendup Dorji.

Chief Justice, Rajinder Sachar ; *Advocate-General*, Anandamoy Bhattacharjee.

TAMIL NADU, Madras.

Governor : K. K. Shah.

Ministers

Chief Minister in charge of Pub. Finance, Plng., Gen. Adm., Police, Prohibition, Excise, etc., M. Karunanidhi ; *Edn., Official Language, Leg., Tourism, etc.*, V. R. Nedunchezian ; *Public Health & Town Plng.*, K. Anbazhagan ;

Backward Classes, Regn., etc., N. V. Natarajan* ; *Pub. Works, Minor Irrigation, Highways, Ports, etc.*, P. U. Shanmugam ; *Food, Co-opn., Textiles, Yarn, Handlooms, Law Courts, Prisons, etc.*, S. Madhavan ; *Industries, Mines & Minerals, Electricity, Waqfs. etc.*, S. J. Sadiq Pasha ; *Agri., Food Prodn., etc.*, Si Pa Aditnar ; *Revenue*, A. P. Dharmalingam ; *Local Admn.*, Mannai P. Narayanaswamy; *Labour, Housing, etc.*, K. Rajaram ; *Social Welfare, Fisheries, etc.*, C. V. M. Annamalai ; *Comm. Taxes, Forests, Animal Husb., etc.*, O. P. Raman ; *Transport*, S. Ramachandran ; *Religious Endowments, Khadi & Village Inds., Inf. & Pub. Relations, Milk, etc.*, M. Kannappan ; *Harijan Welfare, Refugees & Evacuees, etc.*, N. Rajangam.

Secretariat, Fort St. George, Madras 600009.

Chief Secretary, P. Sabhanayagam ; *Secs.*, S. Guhan (*Finance*) ; C. V. S. Mani (*Revenue*) ; R. Pasupathy (*Labour*) ; K. Chokalingam (*Agri.*) ; K. Diraviyam (*Food.*); M. M. Rajendran (*Housing & Commr. of Civil Supplies*) ; C. G. Rangabashyam (*Edn.*) ; R. Natarajan (*Co-opn.*) ; B. Balakrishnan (*Rural Devpt. & Local Adm.*) ; Ramachandar (*P.W.D.*) ; S. Vadivelu (*Law*) ; A. P. Padmanabhan (*Health & Family Plng.*) ; H. K. Ghazi (*Home*) ; Harban Singh (*Inds.*) ; S. P. Srinivasan (*Prohibition & Excise*) ; D. K. Oza (*Social Welfare*) ; J. S. Bhango (*Transport*).

Principal Officials

Commr. for Milk & Livestock Dev., L. M. Menezes ; *Directors :* L. M. Vasagam (*Emp. & Trg.*) ; A Balraj (*Harijan Welfare*) ; A. Venkataraman (*Agri.*) ; Dr. V. Rathnasabapathy (*Animal Husb.*) ; R. Perumal (*School Edn.*) ; T. V. Vasudevan (*Rural Devpt.*) ; M. Mayilvakanan (*Fisheries*) ; K. Mohanrangam (*Collegiate Edn.*) ; R. A. Seetharamadas (*Ind. & Commerce*) ; Dr. M. Narayanan (*Medical Edn.*) ; Dr. P R. Balakrishnan (*Health & Family Plng.*) ; Dr V G. Kulandaiswami (*Tech. Edn.*) ; E. L Stracey (*Vigilance & Anti-Corruption*) ; A. P. Muthuswamy (*State Transport*) ; P. Pandarinatha (*Repatriate Rehab.*) ; P. Sankar (*Handlooms*) ; D. Arumugam (*Backward Classes*) ; *Registrar of Co-op. Socs.*, B. Vijayaraghavan ; *Chief Conservator of Forests*, K. A. Boja Shetty ; *Commr. of Labour*, G. Kamalarathnam ; *Commr. of Hindu-Religious & Charitable Endowments*, K. S. Narasimhan ; *Commr. of Police*, K. Radhakrishnan ; *Inspector-Genl. of Police*, F. V. Arul ; *Inspector-Genl. of Prisons*, P. Paramaguru ; *Chmn, Pub. Service Commn.*, J. A. Ambashankar.

State Planning Commission, Ezhilagam, Madras 600005.

High Court, Madras 600001.

Chief Justice, K. Veeraswami ; *Judges*, P. S. Kailasam, K. S. Venkataraman, N. Krishnaswamy Reddy, T. Ramaprasada Rao, M. M. Ismail, K. N. Mudaliyar, P. R. Gokulakrishnan, G. Ramanujam, V. Ramaswami, S. Maharajan, N. S. Ramaswami, C. J. R. Paul, S. Natarajan, A. Varadarajan ; *Addl. Judges*, V. Sethuraman, S. Ratnavel Pandian, S. Mohan, S. Suryamurthy, V. Bala subramanyan ; *Registrar*, D. Soundara Pandiyan ; *Advocate-General*, S. Govind Swaminadhan.

Railway Service Commission, Cathedral Rd., Madras 600086. *Chmn.*, M. T. Lee ; *Member-Secy.*, D. C. S. Rao.

Southern Railway (General Manager's Office, Park Town, Madras 600003.)

General Manager, G. S. A. Saldanha ; *Sr. Dy. Gen. Manager*, R. Srinivasan ; *Dy. Gen. Manager*, K. P. A. Raju ; *Chief Personnel Officer*, T. Venugopal ; *Chief Engr.*, V. Nilakanta Sarma ; *Chief Engr. (Const.)*, M. V. Chalapat Rao ; *Chief Signal & Telecomm. Engr.*, S. M. Gowrishanker ; *Chief Optg. Supdt.*, N. Seshachalam ; *Chief Commercial Supdt.*, J. S. A. David ; *Chief Mech. Engr.*, K. Raman ; *Chief Elect. Engr.*, N. Ramamurthi ; *F. A. & C. A. Os.*, H. Ramamoorthy, M. Sundar Raj (*Const.*) ; *Chief Security Officer*, P. S. Chellappa ; *Chief Plng. Officer*, B. C. Mathias ; *Chief Medical Officer*, Dr. A. Ramdas.

TRIPURA, Agartala.

Governor: L. P. Singh.

Ministers

Chief Minister in charge of Admve. Reforms, Confidential & Cabinet, Food & Civil Supplies, Home, Inds., Parl. Affairs, Plng. & Co-ordn., Political, Pub. Relations & Tourism, Transport, etc., S. Sen Gupta ; *Health & Family Plng., Jail, Law, etc.*, Monoranjan Nath ; *Tribal & Scheduled Castes Welfare*, H. C. Choudhury ; *Finance, Relief & Rehab., etc.*, D. K. Choudhury ; *Animal Husb., Forests, Labour, etc.*, K. C. Das ; *Other Ministers :* Tarit Mohan Dasgupta and K. D. Bhattacharjee.

Ministers of State

Agri., Comm. Devpt., M. Ali ; *Social Edn., Women's Programme, etc.*, Smt. Basana Chakraborty ; *Co-opn., Edn., etc.*, S. C. Shome.

Dy. Minister

Hangshadawaj Dewan.

Secretariat

Chief Secretary, B. S. Raghavan ; *Secs.*, A. Sinha (*Agri., Inds., Forests, Panchayats, Animal Husb. & Vety. Services, Comm. Devpt., Plng. & Co-ordn., etc.*) ; K. D. Menon (*Revenue, Land Reforms*) ; D. N. Barua (*Jail, Pub. Relations & Tourism, Food & Civil Supplies, Labour & Emp., etc.*) ; S. Chakraborty (*Judicial*) ; S. K. Ghatak (*Finance, Printing & Stationery*) ; K. B. Gurung (*Edn. & also Commr. for Tribal Affairs*) ; T. S. Vedagiri (*Pub. Works & also Chief Engr.*) ; *Dirs.*, C. R. Paul (*Vigilance*) ; A. K. Das Gupta (*Edn.*) ; M. Sarkar (*Agri.*) ; H. Mukherjee (*Food & Civil Supplies*) ; M. Sen Gupta (*Animal Husb.*) ; K. P. Dutta (*Pub. Relations & Tourism*) ; Dr. G. Raman (*Health Services*) ; R. P. Sen Gupta (*Inds.*) ; G. Ghosh (*Rehab.*) ; P. Nath (*Emp. Services & Man-Power Plng.*) ; *Inspector-Genl. of Police*, B. R. Sur ; *Conservator of Forests*, Ai K. Ghosh ; *Registrar of Co-op. Socs.*, S. R. Chakravorty.

(High Court : Given under Assam).

UTTAR PRADESH, Lucknow.

Governor : Dr. M. Channa Reddy.

Ministers

Chief Minister in charge of Gen. Adm., Home, Power, Edn. (Higher Edn.), Plng., Youth Welfare, Political Pension, Inf., Harijan & Social Welfare, National Integration, etc., H. N. Bahuguna ; *Forests and Tourism*, Ajit Pratap Singh ; *Small Inds.*, Istifa Husain ; *Finance, Heavy Inds., Parl. Affairs, etc.*, Narayan Datt Tiwari ; *Comm. Development & Panchayat Raj*, Baldev Singh Arya ; *Irrigation*, Mahmud Ali Khan ; *Labour, Justice & Transport*, Raj Mangal Pandey ; *Technical, Secondary & Basic Edn.*, Dr. Ramji Lal Sahayak ; *Food & Civil Supplies*, Smt. Rajendra Kumar Bajpai ; *Revenue, Relief & Rehab.*, Swami Prasad Singh ; *Local Self-Govt. & Housing*, Jagdish Sharan Agarwal ; *Excise*, Dr. Charan Singh ; *Health*, Prabhu Narayan Singh ; *Agri.*, Virendra Verma ; *Co-opn. & Animal Husb.*, Narayan Singh ; *Tourism, Sports & Jails*, Lokpati Tripathi ; *Pub. Works*, Shiv Prasad Singh ; *Basic, Secondary & Tech. Edn.*, Ammar Rizu ; *Harijan & Social Welfare*, Mrs. Mohsina Kidwai.

Secretariat

Chief Secretary, B. D. Sanwal ; *Secs.*, R. B. Saxena (*Hill Devpt.*) ; Ghulam Husian (*Gen. Adm., Appt. & Language*) ; J. A. Kalyan Krishnan (*Home, Jails, Vigilance, etc.*) ; G. P. Pandey (*Agri. Prodn. & Rural Devpt.*), S.

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* Died on Aug. 3, 1975.

P. Bhatnagar (*Inf., Cultural Affairs & Scientific Research*); Kum. Kusumlata Mittal (*Tourism, Finance—Insttnl. Finance*); S. V. S. Juneja (*Finance & Dir., National Savings*); B. B. Tandon (*Food & Civil Supplies*); D. P. Varun (*Harijan & Social Welfare, National Integration*); P. K. Kaul (*Inds.*); K. N. Srivastava (*Labour & Excise*); N. C. Saxena (*Irrigation*); L. B. Tiwari, Anand Sarup (*Power*); K. N. Goel (*Judl., Legislative & Legal Remembrancer*); Akhthar Husain (*Local Self-Govt., Relief & Rehab.*); U. P. Bhatt (*Medical, Pub. Health & Family Plng.*); T. P. Tiwari (*Plng., Evaluation, Economics & Stats.,*); G. C. Chaturvedi (*Revenue*); H. N. Agarwal (*Tech. Edn.*); D. M. Sinha (*Admve. Reforms & Sectt. Adm.*); L. K. Nagar (*Sugar Inds. & Cane Devpt.*), R. K. Bhargava (*Sports*); *Spl. Secs.*, B. J. Khodaiji (*Chief Secy's Branch & Home*); T. N. Dhar (*Plng.*); Mahesh Prasad (*Finance*); Raj Kumar Bhargava (*Finance*); Keshava Dayal Agarwal (*Agri.*); Dr. G. P. Chakravarti (*Med., Pub. Health & Family Plng.*); N. P. Tripathi (*Forests*).

Principal Officials

Directors: Braham Singh (*Agriculture*), H. K. Lal (*Animal Husb.*), D. P. Octania (*Economic Intelligence & Stats.*), S. N. Mehrotra (*Secondary & Basic Edn.*), A. P. Mehrotra (*Higher Edn.*), R. N. Kapur (*Technical Edn.*), D. P. Arya (*Harijan & Social Welfare*), Girish Narain Mehta (*Inds.*), Kum. Sarla Sahai (*Inf.*), Dr. G. P. Srivastava (*Medical, Pub. Health & Family Plng.*), R. C. Mathur (*Trg. & Emp.*), Mewa Ram (*Panchayat Raj*), Mukundi Lal Dwivedi (*Ayurvedic & Unani Medicines*), Dr. Sheoraj Singh Teotia (*Fruit Utilization*), Amir Hazan (Handloom *Inds.*), Bhawani Shankar Malkani (*Tourism*); *Registrar, Co-op. Socs.*, Dr. J. P. Singh; *Chief Conservator of Forests*, G. N. Singh; *Inspector-Genl. of Police*, H. K. Kar; *Inspector-Genl. of Prisons*, V. K. Misra; *Chief Engr., PWD*, Pratap Singh; *Chief Engr., Irrigation*, N. S. Saxena; *Commr., Sales Tax*, N. P. Bhatnagar; *Cane Commr.*, V. K. Saxena; *Housing Commr.*, V. S. Katara; *Transport Commr.*, Nand Prakash Watal; *Labour Commr.*, Har Swarup Sharma; *Excise Commr.*, N. B. Lal; *Chmn., State Elect. Board*, B. N. Baliga.

North-Eastern Railway, Gorakhpur.

General Manager, S. C. Mishra; *Sr. Dy. Gen. Manager*, P. N. Talwar; *Chief Comml. Supdt.*, H. N. Kidwai; *Chief, Optg. Supdt.*, Col. Shiv Kishore; *Chief Engr.*, L. C. Agarwal; *Chief Elect. Engr.*, D. S. Mehta; *Chief Mech., Engr.*, A. Sitanath; *Chief Engr. (Const.)*, S. C. Uppal; *Chief Medical Officer*, P. C. Bhalla; *Chief Personnel Officer*, M. M. Nathaniel; *Chief Security Officer*, K. L. Watts; *F.A. & C.A.O.*, A. V. Subramanian; *Chief Pub. Relations Officer*, P. N. Tiwari.

Railway Service Commission, 19, Sardar Patel Marg., Allahabad 211001.

Chmn., Mir Qudrat Ali; *Mem.*, N. L. Ramdasia.

High Court, Allahabad.

Chief Justice, K. B. Asthana; *Judges*, G. C. Mathur, S. Chandra, Y. Nandan, R. L. Gulati, R. B. Misra, C. D. Parekh, O. P. Trivedi, H. Swarup, M. N. Shukla, K. B. Srivastava, Jagmohan Lal, H. N. Seth, M. H. Hussain, S. B. Malik, J. L. Sinha, K. N. Singh, C. S. P. Singh, Gopi Nath, T. S. Misra, N. D. Ojha, K. N. Seth, P. N. Bakshi, H. L. Capoor, H. N. Kapoor, Prem Prakash, Onkar Singh, S. K. Kaul, Chandra Prakash, M. P. Mehrotra, D. N. Jha, Amitav Banerji, B. N. Katju, K. C. Agarwal, *Registrar*, B. C. Jauhari.

WEST BENGAL, Calcutta.

Governor: A. L. Dias.

Secretariat, Writers Bldg., Calcutta 700001.

Ministers

Chief Minister in charge of Home (excluding Transport, Jails, Tourism & Parl. Affairs), Siddhartha Sankar Ray; *Agri. & Comm. Devpt.*, Abdus Sattar; *Public Undertakings, Cottage & Small Scale Inds., Fisheries, Co-opn. & Jhargram*, Dr. Zainal Abedin; *Edn.*, Mrityunjoy Banerjee; *Irrigation, Waterways & Power, etc.*, Abul Barkat Ataul Ghani Khan Chaudhury; *Commerce & Inds., Tourism, etc.*, Tarun Kanti Ghosh; *Finance, Devpt. & Plng.*, Sankar Ghose; *Land Reforms, etc.*, Gurupada Khan; *Forests, Excise, Animal Husb. & Vet. Services, Refugees, Rehab., Relief & Welfare*, Sitaram Mahato; *Labour, Closed & Sick Inds.*, Dr. Gopal Das Nag; *Transport, Jails & Parl. Affairs*, Gyan Singh Sohanpal; *Health & Family Plng.*. Ajit Kumar Panja; *Pub. Works, Housing, etc.*, Bholanath Sen.

Ministers of State

Food & Supplies, Dairy Devpt., etc., Prafulla Kanti Ghosh; *Labour, Animal Husb., Dairy Devpt. & Veterinary Services*, Pradip Bhattacharya; *Agri., Scheduled Castes & Tribal Welfare*, Ananda Mohan Biswas; *Mun. Services, Panchayat, Inf. & Pub. Relations & Youth Services*, Subrata Mukhopadhyay; *Refugee Rehab., Relief & Social Welfare including Tribal & Scheduled Castes Welfare*, Denish Larka; *Edn.*, Govindchandra Naskar; *Public Works & Housing*, Ramkrishna Saraogi; *Public Undertakings, Cottage & Small-Scale Inds.*, Atich Chandra Sinha; *Home & Waqf*, Dr. M. Hossain; *Calcutta Metropolitan Authority, Hoogly Bridge Project*, Dr. Fazle Haque; *Commerce & Inds., Tourism, etc.*, G. S. Gurung.

Dy. Minister,

Edn., Smt. Amala Soren.

Secretariat

Chief Secretary, B. R. Gupta; *Financial Commr.*, S. R. Das; *Commrs.*, J. C. Talukdar (*L. & L.R.*); S. B. Ray (*Food & Supplies*); K. P. A. Menon (*Agri. etc.*); D. K. Guha (*Edn.*); S. S. Varma (*Commerce & Inds.*); B. C. Mukherjee (*Pub. Undertakings, Cottage & Small Scale Inds.*); N. K. Biswas (*Town & Country Plng.*); M. M. Kushari (*Transport*); B. K. Bhattacharyya (*R.R. & Rehab.*); C. N. Pen Anthony (*Power*); M. N. Choudhury (*Emp., Devpt. & Plng.*); A. K. Mazumdar (*Housing*); *Secs.*, B. Mukherjee (*Home*); S. K. Mookerjea (*Tourism*); A. Sen (*Health & Family Plng.*); V. Mishra (*P.W.D.*); T. B. Singh (*Forests & Animal Husb.*); G. S. Banerjee (*Relief & Welfare*); D. P. Chatterjee (*Irrigation & Waterways*); P. V. Shenoi (*Co-operative & Fisheries*); B. R. Chakraborty (*Inf., Pub. Relations & Youth Services*); B. N. Moitra (*Judl.*); R. N. Sengupta (*Labour*); C. R. Guha Mazumdar (*Closed & Sick Inds.*); *Liaison Commr., A/2, State Emporia Bldgs., Irwin Rd., New Delhi* 110001, N. K. Sengupta.

Principal Officials

Inspector-Genl. of Police, R. K. Gupta; *Commr. of Police* S. C. Chaudhury; *Inspector-Genl. of Prisons*, D. C. Mukherjee; *Labour Commr.*, Quader Nawaz; *Registrar of Co-op. Socs.*, A. C. Chattopadyay; *Chief Conservator of Forests*, K. C. Roy Chaudhury; *Dir. of Agri.*, K. D. Sengupta; *Dir. of Inds.*, U. Chatterjee; *Dir. of Public Instruction*, N. R. Kar; *Dir. of Inf. & Public Relations*, Gopal Bhaumik; *Dir. of Fisheries*, D. Chatterjee; *Milk Commr.*, M. Konar; *Dir. of Health Services*, K. C. Basu Mallick; *Dir. of Animal Husbandry*, H. Guha; *Dir. of Tourism*, S. N. Roy.

Eastern Railway, 17, Netaji Subhas Rd., Calcutta 700001.

General Manager, E. J. Simoes; *Sr. Dy. Gen. Manager*, P. R. Mukherjee; *F.A. & C.A.O.*, Godwin Rose; *Chief Optg. Supdt.*, S. N. Sachdev; *Chief Comm, Supdt.*, M.

N. Radhakrishna ; *Chief Engr.*, J. C. Mehta ; *Chief Engr.*, (*Const.*), H. K. Banerjee ; *Chief Signal & Tel. Comm. Engr.*, D. N. Basak ; *Chief Personnel Officer*, Prem Nath ; *Chief Security Officer*, B. C. Mazumdar ; *Chief Mechanical Engr.*, B. B. Lal ; *Chief Elect. Engr.*, P. Varadachari ; *Chief Medical Officer*, Dr. F. W. Correa ; *Chief Plng. Officer*, B. Mohanty ; *Chief Pub. Relations Officer*, S. K. Basu.

South Eastern Railway, 11, Garden Reach Rd., Calcutta 700043.

General Manager, V. Ramanathan ; *Chief Plng. Officer*, K. S. Venkatachalam ; *Sr. Dy. Gen. Manager*, G. C. Lahiri; *F.A. & C.A.Os.*, D. J. De (*Con. — GRC*), V. R. Ganesan (*Open Line*) ; *Chief Comm. Supdt.*, C. D. Chatterjee ; *Chief Engrs.*, T. M. Varughese, T. R. Subramanian (*Con.*) ; *Chief Elect. Engr.*, K. C. Priyadarshree ; *Chief Mech. Engr.*, K. P. Jayaram ; *Chief Optg. Suptd.*, M. S. Gujral ; *Chief Personnel Officer*, B. Venkataramani ; *Chief Signal & Telecom. Engrs.*, P. A. D'Souza ; K. M. Jacob (*Con.*) ; *Chief Engr.* (*Project & Devpt.*), P. K. Mukherjee ; *Chief Pub. Relations Officer*, I. S. Sandhu ; *Chief Security Officer*, S. K. Mitra ; *Controller of Stores*, V. N. Agharkar ; *Chief Medical Officer*, Dr. S. L. Malhotra.

Railway Service Commission, Mackinnon Mackenzie Bldg., 16, Strand Rd., Calcutta 700001.

Chmn., Hari Hara Das ; *Member-Secy.*, S. Ghosh Dastidar ; *Asstt. Secy.*, B. K. Chowdhury.

High Court, Calcutta 700001.

Chief Justice, Sankar Prasad Mitra ; *Judges*, Syed Sadat Abdul Masud, A. N. Sen, Sisir Kumar Mukherjea, S. C. Ghose, R. M. Datta, N. C. Talukdar, S. C. Deb, S. Mukharji, T. K. Basu, S. K. Datta, P. K. Banerjee, A. K. Basu, A. K. Sen, Chittatosh Mookerjee, Amiya Kumar Mokerjee, M. M. Dutt, Purna Chandra Borooah, S. K. Roychowdhury, Kumarjyoti Sengupta, R. N. Bhattacharya, S. K. Bhattacharya, S. K. Hazra, A. K. Janah, P. K. Chanda, N. C. Mukherji, A. N. Banerjee, Sudhamay Basu, A. K. Sarkar, D. K. Sen, A. P. Bhattacharyya, H. N. Sen ; *Addl. Judges :* R. N. Pyne, Bankim Chandra Ray, Manashnath Roy, Bimal Chandra Basak, R. K. Sharma ; *Advocate General*, Gauri Nath Mitra ; *Sheriff*, G. Saha ; *Registrar* (*Appellate Side*) *:* A. M. Pal ; *Registrar* (*Original Side*), Haridas Ghosh.

INDIAN DIPLOMATIC REPRESENTATIVES ABROAD

(Corrected upto July 15, 1975. Further changes, if any, appear at the end of the book.)

EMBASSIES

AFGHANISTAN : *Ambassador :* K. R. P. Singh. *Address :* Embassy of India, Malali Wat, Shahr-e-Nau, Kabul.

ALGERIA : *Ambassador :* S. Shahabuddin. *Address :* Embassy of India, 119 ter, Rue Didouche Mourad, Algiers.

ARGENTINA : *Ambassador* (also Amb. to Paraguay & Uruguay) : S. M. S. Chadha. *Address :* Embassy of India, Paraguay 580 (3rd Flr.), Buenos Aires.

AUSTRIA : *Ambassador :* A. S. Mehta. *Address :* Embassy of India, 1, Opernring, A1010, Vienna 1.

BAHRAIN : *Ambassador :* P. M. S. Mallik. *Address :* Embassy of India, 2299/7, Al Adlia Area, Jufair, Bahrain.

BELGIUM : *Ambassador* (also Amb. to Grand Duchy of Luxembourg : Dr. K. B. Lall.* *Address :* Embassy of India, Avenue Moliere, 121, Brussels 1180.

BOLIVIA : *Ambassador* (Also Amb. to Brazil) : Narendra Singh. Resident in Brasilia. (Embassy of India, La Paz).

BRAZIL : *Ambassador* (also Amb. to Bolivia) : Narendra Singh. *Address :* Embassy of India, Edificio Venancio-VI, 10 Sub Sole, Lote, E 8, Sector de Diversoes Sul, Brasilia—DF.

BULGARIA : *Ambassador :* R. R. Hiremath. *Address :* Embassy of India, 31 Blvd. Patriarch Efti, Sofia.

BURMA : *Ambassador :* Vacant. *Address :* Embassy of India, Oriental Assurance Bldgs., 545–47, Merchant St., Rangoon.

BURUNDI (Kingdom of) : *Ambassador* (also Amb. to the Republic of Rwanda & High Commr. to Uganda) : Vacant. Resident in Kampala. (Embassy of India, Bujumbura).

CAMEROUN : *Ambassador* (also Amb. to Dahomey and Togo & High Commr. to Nigeria) : A. N. Mehta. Resident in Lagos. (Embassy of India, Yaounde).

CHILE : *Ambassador* (also Amb. to Ecuador) : Vacant. *Address :* Embassy of India, 871, Triana, Santiago.

CHINA (PEOPLES' REPUBLIC OF) : *Minister & Charge d'Affaires :* L. L. Mehrotra. *Address :* Embassy of India, 1, Jih Tan Tung Lu, Peking.

COLOMBIA : *Ambassador :* Madan Jeet Singh. *Address :* Embassy of India, Carrera 7, No. 87-20, Apartment No. 104, Bogota.

CONGO (BRAZZAVILLE) : *Ambassador* (Also Amb. to Zaire Republic & Gabon) : Syed Waheed Zaman. Resident in Kinshasa.

COSTA RICA : *Ambassador* (also Ambassador to Panama) : P. P. D'Souza. Resident in Panama City. (Embassy of India, San Jose).

CUBA : *Ambassador :* R. Tandon. *Address :* Embassy of India, Calle 21 NRO. 202, esquina a K, Vedado, Havana.

CZECHOSLOVAKIA : *Ambassador :* V. Siddharthacharry. *Address :* Embassy of India, Valdstejnska 6, Malastrana, Prague 1.

DAHOMEY : *Ambassador* (also Amb. to Cameroun and Togo & High Commr. to Nigeria) : A. N. Mehta. Resident in Lagos. (Embassy of India, Cotonou).

DENMARK : *Ambassador :* Mrs. K. Rukmini Menon. *Address :* Embassy of India 8-II, Amagertory, 1160 Copenhagen.

ECUADOR : *Ambassador* (also Amb. to Chile) : Vacant. Resident in Santiago.

EGYPT (ARAB REPUBLIC OF) : *Ambassador :* A. B. Bhadkamkar. *Address :* Embassy of India, 5, El Shaer Aziz Abaza St., P.O. Box 718, Cairo.

ETHIOPIA : *Ambassador :* V. V. Paranjpe. *Address :* Embassy of India, P.O. 528, Addis Ababa.

FINLAND : *Ambassador :* M. K. Roy. *Address :* Embassy of India, Kansakoulukatu, 5 B 14, Helsinki 10.

FRANCE : *Ambassador :* D. N. Chatterjee. *Address :* Embassy of India, 15, Rue Alfred Dehodencq, Paris, 16.

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* Additionally the Ambassador is India's Special Representative for Economic, Financial & Commercial Affairs, and is also accredited to the European Economic Community and the European Coal and Steel Community. He is permanent Representative to GATT & UNCTAD.

GABON : *Ambassador* (also Amb. to Zaire Republic & Brazzaville-Congo) : Syed Waheed Zaman. Resident in Kinshasa.

GERMAN DEMOCRATIC REPUBLIC : *Ambassador :* A. R. Deo. *Address :* Embassy of India, Clara-Zetkin-Strasse 97/1, 108-Berlin (GDR).

GERMANY (FEDERAL REPUBLIC OF) : *Ambassador :* M. A. Rahman. *Address :* Embassy of India, 262, Adenauerallee, 53, Bonn.

GREECE : *Ambassador* (also Amb. to Yugoslavia): Vacant. Resident in Belgrade (Embassy of India, Athens).

GUATEMALA : *Ambassador :* Vacant. *Address :* Embassy of India, Guatemala.

GUINEA : *Ambassador :* V. K. M. Menon. *Address :* Embassy of India, Avenue de la Republique Immeuble, Kebe, B.P. 186/Bis., Conakry 1.

GUINEA BISSAU : *Ambassador :* (Also Amb. to Senegal, Ivory Coast, Mali, Mauritania, & Upper Volta and High Commr. to Gambia) : H. K. Singh. (Resident in Dakar).

HUNGARY : *Ambassador :* K. P. Sankara Menon. *Address:* Embassy of India, Buzavirag Utca 14, Budapest II.

ICELAND : *Ambassador* (Also Amb. to Norway) : Dr. K. S. Shelvankar. Resident in Oslo. (Embassy of India, Reykjavik).

INDONESIA : *Ambassador :* Mahboob Ahmad. *Address :* Embassy of India, 44 Kebon Sirih, Jakarta.

IRAN : *Ambassador :* Vacant. *Address :* Embassy of India, 166, Avenue Saba Shomali, Off Takhte Jamshid, P. Box No. 2473, Tehran.

IRAQ : *Ambassador :* Vacant. *Address :* Embassy of India, Taha St., Najeeb Pasha, Adhamiya, Baghdad.

IRELAND : *Ambassador :* Prithi Singh. *Address :* Embassy of India, 58, Upper Leeson St., Dublin 4.

ITALY : *Ambassador* (also High Commr. to Malta) : Apa B. Pant. *Address :* Embassy of India, Lungotevere, Mellini 17, Rome.

IVORY COAST : *Ambassador* (also Amb. to Senegal, Mali, Guinea Bissau, Mauritania & Upper Volta & High Commr. to Gambia) : H. K. Singh. Resident in Dakar. (Embassy of India, Abidjan).

JAPAN : *Ambassador:* S. Thiruvenkada Than. *Address :* Embassy of India, 2-Chome, 2-11, Kudan Minami Chiyodaku, Tokyo.

JORDAN : *Ambassador* (also Amb. to Lebanon & High Commr. to Cyprus) : S. K. Singh. Resident in Beirut. *Address :* Embassy of India, 1st Circle, Jabel, Amman.

KHMER REPUBLIC (formerly CAMBODIA) : *Ambassador :* Vacant. *Address :* Embassy of India, 29, Samdech Tieng, Phnom Penh.

KOREA (DEMOCRATIC PEOPLE'S REPUBLIC OF) : *Ambassador :* R. K. Jerath. *Address :* Embassy of India, Block 66, Munso-Wong District Daedong Yong, Pyong Yong.

KOREA (REPUBLIC OF) : *Ambassador :* S. M. Aga. *Address :* Embassy of India, San 2-1, Bokwang-Dong, Yongsan-ku (Behind Bowling Centre), Seoul.

KUWAIT : *Ambassador :* R. Axel Khan. *Address :* Embassy of India, Ring Rd. No. 1, Bldg. No. 3, Dasmah, Kuwait.

LAOS : *Ambassador :* B. Deva Rao. *Address :* Embassy of India, P.O. Box No. 225, Rue Pangkham, Vientiane.

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PORTUGAL : *Ambassador :* Sisir Gupta.

QATAR : *Ambassador :* Arif Qamarain. *Address :* Embassy of India, Sheikh Suheim Villa No. 5, El Sheikh Suheim St., P. Box No. 2788, Doha.

RUMANIA : *Ambassador :* V. K. Ahuja. *Address :* Embassy of India, 16, Srt. Stefan Gheorghiu 16, Bucharest.

RWANDA (Republic of) : *Ambassador* (also Amb. to the Kingdom of Burundi & High Commr. to Uganda) : Vacant. Resident in Kampala.

SAUDI ARABIA : *Ambassador :* Zahir Ahmed. *Address :* Embassy of India, Ibrahim Masoud Bldg., Medina Rd., Badhadia, P. O. Box 952, Jeddah.

SENEGAL : *Ambassador* (also Amb. to Guinea Bissau, Mali, Ivory Coast, Mauritania & Upper Volta & High Commr. to Gambia) : H. K. Singh. *Address :* Embassy of India, Immeuble Daniel Sorano Avenue de la Republique, 9th Flr., P.B. 398, Dakar.

SOMALIA : *Ambassador :* B. P. Agarwal. *Address:* Embassy of India, B. P. No. 955, Mogadishu.

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SWEDEN : *Ambassador :* A. K. Dar. *Address :* Embassy of India, Adolf Fredriks Kyrokoata 12 II, Box 1340 S-11183, Stockholm.

SWITZERLAND : *Ambassador* (also Amb. to the Vatican) : Avtar Singh. *Address :* Embassy of India, 20, Kalcheggweg, 3000 Berne.

SYRIAN ARAB REPUBLIC : *Ambassador :* N. P. Alexander. *Address :* Embassy of India, 40/46, Adhan Malki St., Yassin Houcilati, Damascus.

THAILAND : *Ambassador* (also Permanent Rep. of India to ECAFE) : G. J. Malik. *Address :* Embassy of India, 139, Pan Rd., Bangkok.

TOGO : *Ambassador* (also Amb. to Cameroun & Dahomey and High Commr. to Nigeria) : A. N. Mehta. Resident in Lagos. (Embassy of India, Lome).

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TURKEY : *Ambassador :* N. B. Menon. *Address :* Embassy of India, No. 24, Kibris Sokak, Cankaya, Ankara.

UNITED ARAB EMIRATES : *Ambassador :* E. H. Rizvi. *Address :* Embassy of India, Said Omran Al Mazroi Bldg., (Behind Almariab Cinema), Abu Dhabi.

UNITED STATES OF AMERICA : *Ambassador :* T. N. Kaul. *Address :* Embassy of India, 2107 Massachusetts Avenue, N. W. Washington D.C. 20008.

UPPER VOLTA : *Ambassador* (also Amb. to Senegal, Mali, Guinea Bissau, Mauritania and Ivory Coast & High Commr. to Gambia) : H. K. Singh. Resident in Dakar. (Embassy of India, Ouagadougou).

URUGUAY : *Ambassador* (also Amb. to Argentina & Paraguay) : S. M. S. Chadha. Resident in Buenos Aires. (Embassy of India, Monteviedeo).

U.S.S.R. : *Ambassador :* Vacant. *Address :* Embassy of India, No. 6-8, Ulitsa Obukha, Moscow.

VATICAN : *Ambassador* (also Amb. to Switzerland) : Avtar Singh. Resident in Berne.

VENEZUELA : *Ambassador :* Vacant. *Address :* Embajada de la India, Edificio Nuevo Centro, Avenida. Libertador, Apartado de Correos del Este. 61585, Chacao, Caracas—106.

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VIETMAN (REPUBLIC OF — SOUTH VIETNAM) : *Ambassador :* N. N. Jha. *Address :* Embassy of India, 213, Tu-Do St., Saigon.

YEMEN ARAB REPUBLIC : *Ambassador :* Vacant. *Address :* Embassy of India, Al Amri Bldg., Gamal Abdul Nasser St., Sanaa.

YEMEN (PEOPLE'S DEMOCRATIC REPUBLIC OF) : *Ambassador :* Imdad Ali. *Address :* Embassy of India, Premjee Chambers, Steamer Point, Aden.

YUGOSLAVIA : *Ambassador* (also Amb. to Greece) : Vacant. *Address :* Embassy of India, Dositejeva 26, Belgrade.

ZAIRE REPUBLIC : *Ambassador* (also Amb. to Brazzaville Congo & Gabon) : Syed Waheed Zaman. *Address :* Embassy of India, 18B, Avenue des Batetela, Kinshasa.

HIGH COMMISSIONS

AUSTRALIA : *High Commissioner** :* Dr. Sumal Sinha. *Address :* 92, Mugga Way, Red Hill, Canberra, A.C.T. 2603.

BANGLADESH : *High Commissioner :* Samar Sen. *Address :* Indian High Commission, Road No. 2, Dhanmondi Residential Area, Dacca 2. Asstt. High Commissions of India :—(1) 1/B, Baizid Bostami Rd., Nasirabad, Chittagong ; (2) Rajshahi.

BARBADOS : *High Commissioner* (also High Commr. to Trinidad & Tobago and Jamaica & Counsul-General to Surinam) : N. N. Gupta. Resident in Port of Spain (Trinidad). *Address :* High Commission of India, Bridgetown.

BOTSWANA : *High Commissioner* (Also High Commr. to Zambia) : K. Srinivasan. Resident in Lusaka.

CANADA : *High Commissioner :* U. S. Bajpai. *Address :* High Commission of India, 200, McLaren St., Ottawa K 2P OL6.

CYPRUS : *High Commissioner* (also Amb. to Jordan & Lebanon) : S. K. Singh. Resident in Beirut. (High Commission of India, Nicosia).

FIJI : *High Commissioner* (also High Commr. to Tonga) : Bhagwan Singh. *Address :* High Commision of India, Suit No. 202, Fiji Dev. Bank Bldg., Victoria Parade, Suva. Jurisdiction extends to the UN Trust Territory of Caroline & Marshal Island ; Nauru ; Solomon Island ; New Hebrides ; Gilbert & Elice Islands ; New Caledonia & Society Islands.

GAMBIA : *High Commissioner* (also Amb. to Senegal, Mali, Guinea Bissau, Ivory Coast, Mauritania & Upper Volta) : H. K. Singh. Resident in Dakar. (High Commission of India, Bathurst.)

GHANA : *High Commissioner* (also Amb. to Liberia & High Commr. to Sierra Leone) : Miss C. B. Muthamma. *Address :* High Commission of India, 5, Monkata Ave., Residential Area, P. Box 3040, Accra.

GUYANA : *High Commissioner :* Dr. Gopal Singh. *Address :* No. 10, Avenue of the Republic, P. Box 872, Georgetown.

JAMAICA : *High Commissioner* (also High Commr. to Trinidad & Tobago and Barbados & Consul-General to Surinam) : N. N. Gupta. Resident in Port of Spain. *Address :* High Commission of India, Kingston.

KENYA : *High Commissioner :* Air Chief Marshal Arjan Singh. *Address :* Jeevan Bharati Bldg., Harambee Avenue, Nairobi.

LESOTHO : *High Commissioner* (also High Commr. to Malawi & Swaziland) : S. V. Purushotham. Resident in Lillongwe.

MALAWI : *High Commissioner* (also High Commr. to Lesotho & Swaziland) : S. V. Purushotham. *Address :* High Commission of India, P. Box No. 681, Lillongwe.

MALAYSIA : *High Commissioner :* S. J. S. Chhatwal *Address :* High Commission of India, P. Box No. 59, 19, Jalan Melaka, United Commercial Bank Bldg., Kuala Lumpur.

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MAURITIUS : *High Commissioner :* M. M. Khurana. *Address :* High Commission of India, Bank of Baroda Bldg., Sir William Newton St., Port Louis.

NEW ZEALAND : *High Commissioner* (also High Commr. to Western Samoa) : L. N. Ray. *Address :* 49, Willis Street, Wellington.

NIGERIA : *High Commissioner* (also Amb. to Cameroun, Dahomey & Togo Republics) : A. N. Mehta. *Address :* High Commission of India, 107, Awolowo Rd., Lagos. Information Service of India, South West-Ikoyi, P.O. Box 2322, Lagos.

SIERRA LEONE : *High Commissioner* (also High Commr. to Ghana & Amb. to Liberia) : Miss C. B. Muthamma. Resident in Accra. *Address :* High Commission of India, Freetown.

SINGAPORE : *High Commissioner :* Vacant. *Address :* High Commission of India, India House, 31, Grange Rd., Singapore.

SRI LANKA : *High Commissioner* (also Amb. to Maldives) : Eric Gonsalves. *Address :* High Commission of India, State Bank of India Bldg., Sir B. Jayatilleke Mawatha Fort, Colombo-1. *Asstt. High Commissioner,* T. P. Nedungadi. *Address :* 31, Rajapihilla Mawatha, Kandy.

SWAZILAND : *High Commissioner* (also High Commr. to Lesotho and Malawi) : S. V. Purushotham. Resident in Lillongwe.

TANZANIA : *High Commissioner :* K. D. Sharma. *Address :* High Commission of India, 11th Flr., 'A' Wing, NIC Investment House, Mirambo St., Dar-es-Salaam.

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UGANDA : *High Commissioner* (also Amb. to the Kingdom of Burundi & Republic of Rwanda) : Vacant. *Address:* High Commission of India, Bank of India Bldg. Kampala Rd., Kampala.

UNITED KINGDOM : *High Commissioner :* B. K. Nehru. *Dy. High Commr.,* K. Natwar Singh. *Address :* India House, Aldwych, London, W.C. 2. B4 NA. *Asstt. High Commissions of India :*—(1) 86, New St., Birmingham ; (2) Jaeger House, 62 Buchanan St., Glasgow GI 3JE.

WESTERN SAMOA : *High Commissioner* (also High Commr. to New Zealand) : L. N. Ray. Resident in Wellington.

ZAMBIA : *High Commissioner* (also High Commr. to Botswana) : K. Srinivasan. *Address :* High Commission of India, 47, Independence Ave., P.O. Box 2111, Lusaka.

SPECIAL MISSIONS

BHUTAN : *Representative of India :* I. P. Khosla. *Address :* Lungtenzempa, Thimphu.

UNITED NATIONS : *Ambassador/Permanent Representative :* Rikhi Jaipal. *Adress :* Permanent Mission of India to the United Nations, New India House, 3-East 64th St., New York. Geneva Office : 2-Place des Eaux-Vives, Geneva. *Ambassador/Permanent Rep.,* B. C. Mishra. Permanent Mission of India to the Intnl. Atomic Energy Agency, Opernring of I, Vienna-I. Permanent Mission of India to the U.N. Industrial Development Orgn., Vienna Opernring of 1, Vienna 1. *Amb./Pernament Rep. :* Amrik S. Mehta.

LAOS : *Chairman/Secy.-General, I.C.S.C. and Leader of Indian Delegation :* Vacant. *Address :* International Commission of Supervision & Control in Laos, Vientiane.

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MOMBASA : *Asstt. Commissioner :* S. C. Shah. *Address :* Commission of India, LIC Bldg., Nkrumaha Rd., Mombasa (Kenya).

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KOBE (Japan) : *Consul-General :* K. V. N. Menon. *Address :* Consulate-General of India, 23-1, Yamomotodori, 5-Chome, Ikuta-Ku, Kobe.

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RIO-DE-JANEIRO (Brazil) : *Consul-General :* Dr. Zilmar Montaury. *Address :* Consulate-General of India, A v. Beira Mar 454 Group 3, Castelo, Rio-de-Janeiro.

SAN FRANCISCO : *Consul-General :* R. C. Arora. *Address :* Consulate-General of India, 215, Market St., San Francisco, Calif 94105.

SAN MARINO (Republic of) : *Consul-General :* Gurcharan Singh. Resident in Rome (Indian Embassy).

STUTTGART : *Consul-General :* Dr. R. Kissel. *Address :* Consulate-General of India, 7, Stuttgart-Degerloch Waldstr. 5, 7, Stuttgart.

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WEST BERLIN : *Consul-General :* S. L. Kaul Kilam. *Address :* Consulate-General of India, Joachimstaler Strasse 28 (1st Floor), West Berlin-15.

ZAHIDAN (Iran) : *Consul :* M. K. Kapur. *Address :* Consulate of India, Avenue Mehran-130, Zahidan.

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EMBASSIES

AFGHANISTAN : *Ambassador :* Abdurrahman Pazhwak. *Address :* 9-A, Ring Rd., Lajpatnagar III, New Delhi 110024.

ALGERIA : *Ambassador :* Omar Oussedik. *Address :* 13, Sunder Nagar, New Delhi 110003.

ARGENTINA : *Minister Plenipotentiary & Charge d'Affaires a.i. :* Mario Campora. *Address :* C-27/28, South Extn. Part II, New Delhi 110049.

AUSTRIA : *Ambassador :* Dr. Wolfgang Schallenberg. (Also Amb. to Bangladesh, Nepal & Sri Lanka). *Address :* 18, Jor Bagh, New Delhi 110003.

BELGIUM : *Ambassador :* Jean-Charles Salmon. (Also Amb. to Nepal & Sri Lanka). *Address :* 7, Golf Links, New Delhi 110003. (Embassy looks after the economic affairs of the Grand Duchy of Luxembourg)

BRAZIL : *Ambassador :* Roberto Luiz Assumpcao de Araujo. (Also Amb. to Sri Lanka). *Address :* 8, Aurangzeb Rd., New Delhi 110011.

BULGARIA : *Ambassador :* Stoyan Vladimirov Zaimov. (Also Amb. to Nepal & Sri Lanka). *Address :* 198, Golf Links Area, New Delhi 110003.

BURMA : *Ambassador :* Zeya Kyaw Htin Uba Shwe. (Also Amb. to Nepal). *Address :* Burma House, 3/50-F, Shantipath, Chanakyapuri, New Delhi 110021.

CHILE : *Ambassador :* Augusto Marambio Cabrera. *Address :* 1/13, Shantiniketan, New Delhi 110021.

CHINA : *Charge d'Affairs*, Ma Mu-Ming. *Address :* 50-D, Shanti Path, Chanakyapuri, New Delhi 110021.

COLOMBIA : *Ambassador :* Fernando Navas de Brigard. *Address :* D-82, Malcha Marg, Chanakyapuri, New Delhi 110021.

CUBA : *Ambassador :* Dr. Angel Ferras Moreno. *Address :* C-290, Defence Colony, New Delhi 110024.

CZECHOSLOVAKIA : *Ambassador :* Dr. Zdenek Trhlik (Also Amb. to Nepal). *Address :* 50-M, Niti Mrg., Chanakyapuri, New Delhi 110021.

DENMARK : *Ambassador :* Henning Halck. (Also Amb. to Sri Lanka & Nepal). *Address :* 2, Golf Links Area, New Delhi 110003.

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ETHIOPIA : *Ambassador :* Getachew Mekasha. *Address :* B-54, Paschimi Mrg., Vasant Vihar, New Delhi 110057.

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GABON: *Ambassador accredited to India is stationed at Paris.*

GERMAN DEMOCRATIC REPUBLIC: *Ambassador:* Wolfgang Schuessler. *Address:* 2, Nyaya Marg, Chanakyapuri, New Delhi 110021.

GERMANY (FEDERAL REPUBLIC OF): *Ambassador:* Guenter Diehl. *Address:* No. 6, Block 50-G, Shanti Path, Chanakyapuri, New Delhi 110021.

GREECE: *Ambassador:* Dr. Basil Vitsaxis. *Address:* 188, Jor Bagh, New Delhi 110003.

GUATEMALA: *Ambassador accredited to India is stationed at Tokyo.*

GUINEA: *Ambassador:* Mamady Lamine Conde.

HOLY SEE: *Apostolic Pronuncio:* The Most Rev. John Gordon. *Address:* Niti Marg, Chanakyapuri, New Delhi 110021.

HUNGARY: *Ambassador:* Dr. Ferenc Turi. (Also Amb. to Nepal, Burma, Sri Lanka & Singapore). *Address:* 15, Jor Bagh, New Delhi 110003.

INDONESIA: *Ambassador:* Lt. Gen. Soegth Arto. *Address:* 50-A, Chanakyapuri, New Delhi 110021.

IRAN: *Ambassador:* Mohammad Goodarzi. *Address:* 65, Golf Links, New Delhi 110003.

IRAQ: *Ambassador:* Vacant. *Address:* 33, Golf Links, New Delhi 110003.

IRELAND: *Ambassador:* Denis Holmes. *Address:* 13, Jor Bagh, New Delhi 110003.

ITALY: *Ambassador:* Dr. Carlo Calenda. *Address:* 13, Golf Links, New Delhi 110003.

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JORDAN: *Ambassador:* Wajih Al-Kaylani (Also Amb. to Thailand). *Address:* 35, Malcha Marg, Chanakyapuri, New Delhi 110021.

KHMER REPUBLIC: *Ambassador:* Nong Kimny. *Address:* 25, Golf Links, New Delhi 110003.

KOREA (DEMOCRATIC PEOPLE'S REPUBLIC OF): *Ambassador:* Yu Song Jing. *Address:* 11, Barakhamba Rd., New Delhi 110001.

KOREA (REPUBLIC OF): *Ambassador:* Chan Hyun Pak. *Address:* 5, Mansingh Rd., New Delhi 110011.

KUWAIT: *Ambassador:* Essa A. Al-Essa. *Address:* 19, Friends Colony West, New Delhi 110014.

LAOS: *Ambassador:* Phagna Souk UPRAVAN (Also Amb. to Sri Lanka & Nepal). *Address:* 4, Circular Rd., Chanakyapuri, New Delhi 110021.

LEBANON: *Ambassador:* Mahmoud Hafez. (Also Amb. to Nepal, Sri Lanka, Indonesia & Thailand). *Address:* 3, Panch Sheel Mrg., Chanakyapuri, New Delhi 110021.

LIBYA: *Ambassador:* Ezzedin Ali Mahomoud Al Ghadamsi.

MEXICO: *Ambassador:* Carlos Gutierrez-Macias. *Address:* 136, Golf Links, New Delhi 110003.

MONGOLIAN PEOPLE'S REPUBLIC: *Ambassador:* Buyantyn Dashtseren. (Also Amb. to Nepal, Sri Lanka and Bangladesh). *Address:* 34, Golf Links, New Delhi 110003.

MOROCCO: *Ambassador:* Vacant. *Address:* 199, Jor Bagh, New Delhi 110003.

NEPAL: *Ambassador:* Krishna Bom Malla. *Address:* Barakhamba Rd., New Delhi 110001.

NETHERLANDS: *Ambassador:* Tjark Asueer Meurs. (Also Amb. to Nepal, Sri Lanka & Burma). *Address:* 6/50F, Shanti Path, Chanakyapuri, New Delhi 110021. (Embassy looks after the diplomatic affairs of Grand Duchy of Luxembourg).

NORWAY: *Ambassador:* T. K. Christiansen. (Also Amb. to Sri Lanka, Bangladesh & Nepal). *Address:* Kautilya Marg, Chanakyapuri, New Delhi 110021.

OMAN (SULTANATE OF): *Ambassador:* Ali M. al-Jamali. *Address:* 22, Vasant Vihar, New Delhi 110057.

PANAMA: *Ambassador accredited to India is stationed at Cairo.*

PARAGUAY: *Ambassador accredited to India is stationed at Tokyo.*

PERU: *Ambassador:* Vacant. *Address:* D-290, Defence Colony, New Delhi 110024.

PHILIPPINES: *Ambassador:* Romeo S. Busuego. (Also Amb. to Nepal). *Address:* 50-N, Nyaya Marg, Chanakyapuri, New Delhi 110021.

POLAND: *Ambassador:* Wiktor Kinecki. *Address:* 22, Golf Links, New Delhi 110003.

PORTUGAL: *Charge d'Affaires:* Dr. M. Brito.

QATAR: *Charge d'Affaires:* Mohammed Abdul Rehman Alkholaifi. *Address:* Embassy of the State of Qatar, A-3, West End Colony, New Delhi 110021.

RUMANIA (SOCIALIST REPUBLIC OF): *Ambassador:* Petre Tanasie. *Address:* 9, Tees January Marg, New Delhi 110011.

SAUDI ARABIA: *Ambassador:* Sheikh Yusuf Al-Fozan. *Address:* 1, Eastern Avenue, Maharani Bagh, New Delhi 110014.

SPAIN: *Ambassador:* Guillermo Nadal. *Address:* 12, Prithviraj Rd., New Delhi 110011.

SUDAN: *Ambassador:* Hassan el-Amin el-Bashir. (Also Amb. to Sri Lanka, Indonesia & Malaysia). *Address:* 6, Jor Bagh, New Delhi 110003.

SWEDEN: *Ambassador:* Lennart Finnmark. (Also Ambassador to Bangladesh, Nepal and Sri Lanka). *Address:* Nyaya Marg, Chanakaypuri, New Delhi 110021. *Development Assistance Office:* D1/14, Vasant Vihar, New Delhi 110057. *Commercial Section:* Chandra Gupta Mrg., Chanakyapuri, New Delhi 110021.

SWITZERLAND: *Ambassador:* Etienne Suter. Also Amb. to Nepal). *Address:* Nyaya Marg, Chanakyapuri, New Delhi 110021. (The Embassy is in charge of Pakistan affairs in India).

SYRIAN ARAB REPUBLIC: *Ambassador:* Raslan Alloush. *Address:* 63, Sunder Nagar, New Delhi 110011.

THAILAND: *Ambassador:* Dr. Owart Suthiwart-Narueput. *Address:* 56-N, Nyaya Marg, Chanakyapuri, New Delhi 110021.

TURKEY: *Ambassador:* Gundogdu Ustun. *Address:* 27, Jor Bagh, New Delhi 110003.

UNION OF SOVIET SOCIALIST REPUBLICS: *Ambassador:* Viktor Federovich Maltshev. *Address:* Shanti Path, Chanakyapuri, New Delhi 110021.

UNITED ARAB EMIRATES: *Ambassador:* Mohammed Issa Al-Ali. *Address:* 104, Malcha Mrg., New Delhi 110021.

UNITED STATES OF AMERICA: *Ambassador:* William B. Saxbe. *Address:* Shanti Path, Chanakyapuri, New Delhi 110021.

URUGUAY : *Ambassador :* Alfredo Urioste. *Address :* 45, Ring Rd., Lajpatnagar III, New Delhi 110024.

VENEZUELA : *Charge' d'Affaires a. i. :* Mrs. Rita M. de Arismendi. *Address :* N-114, Panchshila Park, New Delhi 110017.

VIETNAM (DEMOCRATIC REPUBLIC OF): *Ambassador :* Chu Van Bien. *Address :* 35, Prithviraj Rd., New Delhi 110011.

YEMEN (PEOPLES DEMOCRATIC REPUBLIC OF): *Charge d'Affaires :* Ali Hussein Mazhel. *Address :* C-18, Friends Colony East, New Delhi 110014.

YUGOSLAVIA (SOCIALIST FEDERAL REPUBLIC OF) : *Ambassador :* Ilija Topaloski. *Address :* 3/50G, Shanti Path, Chanakyapuri, New Delhi 110021.

ZAIRE REPUBLIC : *Ambassador :* Ileka Mboyo. *Address :* 160, Jorbagh, New Delhi 110003.

HIGH COMMISSIONS

AUSTRALIA : *High Commissioner :* Bruce Alexander Grant. *Address :* 1/50G, Shanti Path, Chanakyapuri, New Delhi 110021. *Bombay Office :* Australian Consul-General, Express Towers, 9th Flr., Nariman Point, Bombay 400021 ; *Calcutta Office :* Australian Consul-General, Brooke House, 9 Shakespeare Sarani, P.O. Box 9110, Calcutta 700016.

BANGLADESH : *High Commissioner,* Shamsur Rahman Khan (Also Amb. to Nepal & Bhutan). *Address :* 56, Ring Rd., Lajpatnagar, New Delhi 110024. *Ednl., Consular & Cultl. Divns. :* 4, Ring Rd., Lajpatnagar, New Delhi 110024.

BRITAIN : *High Commissioner :* Sir Michael Walker, K.C.M.G. *Address :* Shanti Path, Chanakyapuri, New Delhi 110021. *British Council Divn. :* 21, Jorbagh, New Delhi 110003. *Deputy High Commr. :* J. W. Nicholas. *Address :* 1, Ho Chi Minh Sarani, Calcutta 700016. *Deputy High Commr. :* William Peters, M.B.E. *Address :* Mercantile Bank Bldg., Mahatma Gandhi Rd., Bombay 400023. *Deputy High Commr. :* J. E. A. Miles, O.B.E. *Address :* Local Library Authority Bldg., 150-A, Mount Rd., Madras 600002.

CANADA : *High Commissioner :* J. R. Maybee. (Also Amb. to Nepal). *Address :* 7/8, Shantipath, Chanakyapuri, New Delhi 110021.

GHANA : *High Commissioner :* Paul Boakye Duah. *Address :* A-42, Vasant Mrg., Vasant Vihar, New Delhi 110057.

GUYANA : *High Commissioner :* Rahman B. Gajraj. (Also High Commr. to Sri Lanka). *Address :* High Commission of Guyana, 180, Jor Bagh, New Delhi 110003.

KENYA : *High Commissioner :* Shadrack K. Kimalel. (Also Amb. to Japan & High Commr. to Sri Lanka). *Address :* E-27, Defence Colony, New Delhi 110024.

MALAYSIA : *High Commissioner :* Tan Sri Haji Abdul Khalid bin Awang Osman. *Address :* 3, Link Rd., Jangpura, New Delhi 110014. *Asst. High Commr. :* Low Thiam Kit. *Address :* 110/1, Mount Rd., Teynampet, Madras 600018.

MAURITIUS : *High Commissioner :* Rabindrah Ghurburrun. *Address :* 5, Kautilya Marg, Chanakyapuri, New Delhi 110021.

NEW ZEALAND : *High Commissioner :* Dr. Colin Aikman. (Also High Commr. to Sri Lanka & Amb. to Bangladesh, Nepal & Republic of Maldives). *Address :* 39, Golf Links, New Delhi 110003.

NIGERIA : *High Commissioner :* Soji Williams. (Also Amb. to Thailand & Burma and High Commr. to Sri Lanka). *Address :* 169/170, Jor Bagh, New Delhi 110003.

SINGAPORE : *High Commissioner :* K. M. Byrne. *Address :* 48, Golf Links, New Delhi 110003.

SRI LANKA : *High Commissioner :* Justin Siriwardane. *Address :* 27, Kautilya Marg, Chanakyapuri, New Delhi 110021. *Dy. High Commissioner,* Dr. S. U. Kodikara. *Address :* 3, Shafee Mohd. Rd., Rutland Gate, Madras 600006.

TANZANIA : *High Commissioner :* A. D. Hassan. *Address :* E-106, 'Hill View', Greater Kailash, New Delhi 110048.

TRINIDAD & TOBAGO : *High Commissioner :* Solomon S. Lutchman. *Address :* 131, Jor Bagh, New Delhi 110003.

UGANDA : *Ag. High Commissioner :* E. L. Saendaula. *Address :* 61, Golf Links, New Delhi 110003.

ZAMBIA : *Charge d'Affaires :* W. Mubita. *Address :* Ashoka Hotel, New Delhi 110021.

MISSION

BHUTAN : *Representative :* Lyonpo Sangey Penjore. *Address :* Royal Bhutan Mission, 1/21, Shantiniketan, New Delhi 110021.

PRG (PROVISIONAL REVOLUTIONARY GOVT. OF SOUTH VIETNAM) MISSION IN NEW DELHI : *Charge d'Affaires,* Vo Hai Hien.

CONSULAR OFFICES

AFGHANISTAN : *Consul-General :* Mohd. Usef Mahrdel. *Address :* 115, Walkeshwar Rd., Bombay 400006.

AUSTRIA : *Hon. Consul-General :* Dr. Burjor B. Godrej. *Address :* Godrej Bhavan, Home St., Bombay 400001.

BELGIUM : *Consul-General :* A. De Schutter. *Address :* "Morena", 11, M. L. Dahanukar Mrg., Bombay 400026.

Consul (Hon.) : Sunil Singh Roy. *Address :* 5/1A, Hungerford St., Calcutta 700017.

Consul (Hon.) : M. Nevens. *Address :* 1-E, Spurtank Rd., Madras 600031.

BOLIVIA : *Hon. Consul-General :* J. K. Gora. *Address :* 10, National Tower, 13, Loudon St., Calcutta 700017.

BRAZIL : *Honorary Consul :* J. R. Antonio Viegas. *Address :* 8/6, Alipore Park Rd., Calcutta 700027.

Consul (Hon.) : J. T. Thadani. *Address :* 7A, Nungambakkam High Rd., Madras 600034.

BURMA : *Consul-General :* U Than Maung. *Address :* 46/C, Chowringhee Rd., Calcutta 700016.

COSTA RICA : *Consul-General :* A. K. Makani. *Address :* Standard Bldg., 346, Dr. D. Naoroji Rd., Bombay 400001.

CZECHOSLOVAKIA : *Ag. Counsul-General :* Dr. R. Hlavaty. *Address :* "Marcopia", 5, Deshmukh Marg, Cumbala Hill, Bombay 400026.

Consul-General : Vladimir Hegr. *Address :* 24B, Park St., Calcutta 700016.

DENMARK : *Hon. Consul-General :* H. Holck-Larsen. *Address :* L. & T. House, Ballard Estate, Bombay 400038.

Hon. Consul : Sven Palm. *Address :* 18-G, Park St., Calcutta 700016.

Hon. Consul : P. H. Mortensen. *Address :* 4-5, Club House Rd., Madras 600002.

DOMINICAN REPUBLIC : *Consul-General (Hon.) :* H. H. Ismail. *Address :* Mistry Court, 208, D. Vachha Rd., Bombay 400020.

ECUADOR : *Consul :* Kalyan Sen. *Address :* 13, Camac St., Calcutta 700017.

In Charge of Consular Affairs, H. H. Ismail, Mistry Court, 208, D. Vachha Rd., Bombay 400020.

EL SALVADOR : *Consul :* Karanjaksha Bonerjee. *Address :* 12, P. K. Tagore St., Calcutta 700006 & 186, Sarat Bose Rd., Calcutta 700029.

ETHIOPIA : *Hon. Consul-General :* Ismail M. Kanga. *Address :* Crescent Chambers, Tamarind Lane, Bombay 400023.

Hon. Consul General : S. N. Hada. *Address :* 42, Garden Reach Rd., Calcutta 700024.

FRANCE : *Consul-General :* René de CHOISEUL-PRASLIN. *Address :* Mercantile Bank Bldg., 52, M. Gandhi Rd., Bombay 400023.

Consul-General : Jacques BUTIN. *Address :* 26, Park Mansions, Park St., Calcutta 700016.

Consul-General : Gérard GRIFFON. *Address :* 2, Rue de la Marine, Pondicherry 605001.

Consular Agent : Christian Revel. *Address :* 7/75, Calvethy Rd., Cochin 682002.

GERMAN DEMOCRATIC REPUBLIC : *Consul-General :* Klaus Maeser. *Address :* 122, Dinshaw Vachha Rd., Bombay 400020.

Consul-General : Dr. Joachim Heidrich. *Address :* 14, Gurusaday Rd., Calcutta 700016.

Consul General : Herbert Schulze. *Address :* 1/1, Kodambakkam High Rd., Nungambakkam, Madras 600034.

GERMANY (FEDERAL REPUBLIC OF) : *Consul-General :* Mrs. Helene Schoettle. *Address :* Ramon House, Rd. No. 3, Backbay Reclamation, Bombay 400020.

Consul-General : Dr. H. F. Linsser. *Address :* 1, Hastings Park Rd., Alipore, Calcutta 700027.

Consul-General : E. F. Baumann. *Address :* Mico Bldg., 14, Commander-in-Chief Rd., Egmore, Madras 600008.

GREECE : *Consul-General :* George E. Aperghis. *Address :* Ralli House, 21, Ravelin St., Bombay 400001.

Consul-General : J. K. Gora. *Address :* 10, National Tower, 13, Loudon St., Calcutta 700017.

HAITI : *Hon. Consul :* Vacant. *Address :* No. 2, Bidhan Saranee, Calcutta 700006.

Consul : Ranbir Singh. *Address :* Vellard View, Pedder Rd., Bombay 400026.

HONDURAS REPUBLIC : *In charge of Consular Affairs :* A. R. H. Ismail. *Address :* Mistry Court, 208, D. Vachha Rd., Bombay 400020.

ICELAND : *Hon. Consul :* D. K. Hirlekar. *Address :* 38, Western India House, Sir P. Mehta Rd., Bombay 400001.

INDONESIA : *Consul :* Bogoes Soegito. *Address :* 17, Altamount Rd., Cumballa Hill, Bombay 400026.

Hony. Consul : D. K. Nag. *Address :* Rajkamal Bhavan, 128, Rash Behari Avenue, Calcutta 700029.

IRAN : *Consul-General :* Masoud Moadel. *Address :* Baldota Bhavan, 117, Maharshi Karve Rd., Bombay 400020.

Consul-General : Dr. Ismail Afdjei. *Address :* 8-2, 502/1, Road No. 7, Jubilee Hills, Hyderabad 500034.

IRAQ : *Consul-General :* Sabih Al-Samarraie (*Ag.*). *Address :* "Panorama", 203, Walkeshwar Rd., Bombay 400006.

ISRAEL : *Consul :* Yehoshua Trieor. *Address :* 50, Pedder Rd., Bombay 400026.

ITALY : *Consul-General :* Dr. Luigi Durante. *Address:* 3, Raja Santosh Rd., Alipore, Calcutta 700027.

Consul-General : Dr. Edmondo Anderlini *Address :* Vaswani Mansion, D. Vachha Rd., Bombay 400020.

Hony. Consul : G. K. Devarajulu. *Address :* Kowdi & Co. Bldgs., W. Island, Cochin 682003.

Hon. Consular Agent : T. M. Naganath. *Address :* C/o Alitalia, 150/A, Mount Rd., Madras 600002.

JAPAN : *Consul-General :* T. Hashimoto. *Address :* 12, Pretoria St., Calcutta 700026.

Consul-General : K. Kimura. *Address :* 1, Babasaheb Dahanukar Marg, Bombay 400026.

Consul-General : Y. Matsuoka. *Address :* 20, Nungumbakkam High Rd., Madras 600034.

JORDAN : *Consul :* Fakirmohamed K. Mistry. *Address :* Mistry Court, D. Vachha Rd., Bombay-400020.

KUWAIT : *Consul-General :* Faisal Essa Yousuf. *Address :* Vaswani Mansion, D. Vachha Rd., Bombay 400020.

LIBERIA : *Consul-General :* A. K. Bonerjee. *Address:* 186, Sarat Bose Rd., Calcutta 700029.

MAURITIUS : *Hon. Consul-General :* A. S. Kably. *Address :* Corinthian, Near Standard Cinema, Bombay 400005.

MONACO : *Consul-General* (*Hony.*) *:* R. Chattaram. *Address :* D-1, Defence Colony, New Delhi 110024.

NEPAL : *Consul-General :* Rom Bahadur Thapa. *Address :* 19, Woodlands, Sterndale Rd., Alipore, Calcutta 700027.

NETHERLANDS : *Consul-General :* A. de Wit. *Address:* 3rd Flr., "International", 16, Maharshi Karve Rd., Bombay 400020.

Ag. Consul-General : J. A. Soffers. *Address :* 'Philips House', 7, Justice Chandra Madhab Rd., Calcutta 700020.

Consul : A. Stewart. *Address :* Chordia Mansion, 150/A-2, Mount Rd., Madras 600002.

Consul : S. S. Koder. *Address :* Princess St., Fort, Cochin 682001.

NICARAGUA : *Hon. Vice-Consul :* C. J. Rege. *Address :* 4, Prem Court, J. Tata Rd., Bombay 400020.

NORWAY : *Consul-General :* Carsten Gylseth. *Address :* Nowroji Mansion, 31, Wodehouse Rd., Bombay 400023.

Consul : H. S. Lanson. *Address :* 18-A, Brabourne Rd., Calcutta 700001.

Consul : P. J. Weavers. *Address :* Harrissons & Crossfield Ltd., P. Box 502, Cochin 682003.

Consul : C. D. Gopinath. *Address :* Post Box No. 42, Madras 600001.

PERU : *Incharge of the Consulate-General :* J. R. Antonio Viegas. *Address :* 8/6, Alipore Rd., Calcutta 700027.

Incharge of Consular Affairs in New Delhi and Bombay : Hectar Cabada-Barrios. *Address :* Peruvian Embassy, D-290, Defence Colony, New Delhi 110024.

PHILIPPINES : *Hon. Consul-General :* K. R. Patel. *Address :* 10, Lall Bazar St., Calcutta 700001.

Hon. Consul-General : M. A. Chidambaram. *Address:* 99, Armenian St., Madras 600001.

Hon. Consul-General : A. V. Birla. *Address :* 159 Churchgate Reclamation, Bombay 400020.

POLAND : *Consul :* J. Dylewski. *Address :* Manavi Apartments, 36, Ridge Rd., Malabar Hill, Bombay 400006.

Consul : H. Szczukowski. *Address :* 3B, Albert Rd., Calcutta 700017.

SAN MARINO : *Consul-General* (*Hony.*) *:* Bhai Mohan Singh. *Address :* 15-A, Aurangzeb Rd., New Delhi 110011.

SPAIN : *Vice-Consul :* Napoleon Fernandez. *Address :* "Oceana", 153, Marine Drive, Bombay 400020.

Vice-Consul : Pritindra Nath Ray Chowdury. *Address :* 10, Old Post Office St., Calcutta 700001.

Vice-Consul : Chevalier George P. J. Lobo. *Address :* "Lawdale", 5, Nimmo Rd., San Thome, Mylapore, Madras 600004.

PANAMA : *Consul-General :* Adolm Woolmarker, *Hqrs. :* Bombay.

SUDAN : *Consul-General :* Yousif M. Abdalla. *Address :* Flat No. 5, Mistry Court, D. Vachha Rd., Bombay 400020.

SWEDEN : *Consul-General :* Akbar Hydari ; *Consul :* A. F. Mody. *Address :* Indian Mercantile Chambers, Nicol Rd., B. Estate, Bombay 400038.

Consul : Sven Adolf Palm. *Address :* 18-G, Park St., Calcutta 700016.

Consul : G. Rundberg. *Address :* 71, First Main Rd., Raja Annamalaipuram, Madras 600028.

SWITZERLAND : *Consul-General :* J. Etter. *Address :* Manek Mahal, 90, Veer Nariman Rd., Bombay 400020.

SYRIA : *Consul-General :* Sobhi Elejel. *Address :* Cambatta Bldg., 3rd Flr., J. Tata Rd., Bombay 400020.

THAILAND : *Ag. Consul-General :* Maitri Chuladul. *Address :* 18-B, Mandeville Gardens, Ballygunge, Calcutta 700019.

TURKEY : *Hon. Consul-General :* Rahim Karim Mistry. *Address :* 208, D. Vachha Rd., Bombay 400020.

Hon. Consul-General : M. A. A. Kashani. *Address:* "Nilhat House", 11, R. N. Mukherjee Rd., Calcutta 700001.

Hon. Consul-General : Mrs. N. D. Mustafa Bilgen. *Address :* 115, Lloyds Rd., Cathedral P.O., Madras 600006.

UNITED ARAB EMIRATES : *Consul-General :* Mirza Al Sayegh. *Address :* 32, Mehr Dad, Cuffe Parade, Bombay 400005.

UNITED STATES OF AMERICA : *Consul-General :* David M. Bane. *Address :* "Lincoln House", 78, B. Desai Rd., Bombay 400026.

Consul-General : Laurence G. Pickering. *Address :* 3A, Shakespeare Sarani, Calcutta 700016.

Consul-General : John Eaves Jr. *Address :* Mount Rd., Madras 600006.

UPPER VOLTA : *Consul-General :* P. K. Bonerjee. *Address :* 186, Sarat Bose Rd., Calcutta 700029.

U.S.S.R. : *Consul General :* B. K. Yakovlev. *Address :* "Palm Beach", 42, L. Jagmohandas Mrg., Bombay 400006.

Consul-General : A. K. Yezhov. *Address :* 31, Shakespeare Sarani, Calcutta 700016.

Consul-General : I. M. Kharchenko. *Address :* 3rd Left St., Rly. Service Commission Rd., Madras 600006.

YEMEN (PEOPLE'S DEMOCRATIC REPUBLIC OF) : *Consul :* Mohamed Abdulla Mohamed Almas. *Address :* 22, Hassan Mahal, Cuffe Parade, Bombay 400005.

YUGOSLAVIA (SOCIALIST FEDERAL REPUBLIC OF) : *Consul-General :* Aleksander Stanic. *Address :* Vaswani Mission, 120/4, D. Vachha Rd., Bombay 400020.

Consul-General : Beljic Milos. *Address :* 6, Ballygunge Park Rd., Calcutta 700019.

U. N. & OTHER BODIES IN INDIA

UNITED NATIONS, 55, Lodi Estate, New Delhi 110003.

United Nations Development Programme (UNDP)

It is the world's largest multi-national source of pre-investment assistance and technical co-operation. It makes available to the developing nations the combined knowledge, expertise & experience of the United Nations family of agencies *Resident Rep. :* Roger Polgar.

United Nations Information Centre, 55, Lodi Estate, New Delhi 110003.

The Centre maintains a close working relationship with national & local information media, institutions, govtl. information services & non-govtl. organisations on matters relating to the dissemination of information about the U.N. and the specialized agencies. *Director :* Rudolf Stajduhar.

United Nations High Commissioner for Refugees (U N H C R), 1, Ring Rd., Kilokri, New Delhi 110014.

U. N. Children's Fund (UNICEF)

Regnl. Office for Afghanistan, Sri Lanka, India, Bhutan, Maldives, Nepal & Mongolia, UNICEF House, 11, Jorbagh, New Delhi 110003.

Zone Offices : Middle India Office, 53, Jorbagh, New Delhi 110003 ; *East India Office,* 26, Lee Rd., Calcutta 700020 ; *North India Office,* House No. 663, Sector 11-B, Chandigarh 160011 ; *South India Office,* Ex-Legislators' Hostel Annexe, Government House Estate, Mount Rd., Madras 600002 ; *South East India Office,* 16, Uma Nagar, Begumpet, Hyderabad 500016 ; *Upper India Office,* B-7, L-Park, Mahanagar Extn., Lucknow 226006 ; *West India Office,* Ravindra Mansion, Dinshaw Vachha Rd., Bombay 400020.

UNICEF is currently assisting programmes in the fields of child health, nutrition, edn. & welfare in 111 countries by putting voluntary contributions from 131 governments, donations from the public-at-large and the sale proceeds of UNICEF greeting cards to practical use.

UNICEF'S primary concern in India & other developing countries is the strengthening of national services for children & youth through long-range programmes e.g., providing equipment for primary health centres, developing rural water supply, improving nutrition through milk plants & applied nutrition projects and stimulating science education and pre-school services etc. *Regnl. Dir. of South Central Asia :* John Grun.

International Bank for Reconstruction and Development, 53, Lodi Estate, New Delhi 110003.

International Labour Organisation (Area Office), 7, Sardar Patel Marg, New Delhi 110021.

Estd. in 1928. Covers India, Sri Lanka, Bhutan, Nepal & the Maldive Islands. The Area Office maintains contacts and relations with Govtl. agencies, organisations & insttns. in the regn. and workers' & employers' organisations. It explores the needs for technical assistance and assists in the preparation of projects within the ILO's fields of competency & in their implementation. It collects & disseminates information that is of interest to the regn. and/or to Hqrs. and relevant to ILO activities. The office also prospects candidates for ILO assignments abroad. It has a good reference library & undertakes the sale of ILO publications. *Area Director :* B. Ghosh.

United Nations Educational, Scientific and Cultural Organisation : Office of the Chief of Mission in India, and the Field Science Office for South Asia, 40-B, Lodi Estate, New Delhi 110003.

Chief of Mission & Director, Field Science Office for South Asia : Dr. Vyacheslav Grigorievich Podoinitsin.

FAO of the United Nations ; World Food Programme, *Sr. Agri. Adviser/FAO Country Rep. in India :* J. Van der Meulen.

World Bank, 53, Lodi Estate, New Delhi 110003.

World Health Organization, Regnl. Office for South-East Asia: World Health House, Indraprastha Estate, Ring Rd., New Delhi 110001. *Regnl. Dir.,* Dr. V. T. H. Gunaratne.

U.N. Military Observers Group in India & Pakistan, 1/AB, Purana Qila Rd., New Delhi 110001.

Afro-Asian Rural Reconstruction Organisation, C/117-118, Defence Colony, New Delhi 110024.

To launch concrete & co-ordinated action to reconstruct the economy of the rural people of Afro-Asian countries and to revitalize their social & cultural life. *Membership :* 23 ; 11 African & 12 Asian Countries. *President :* Ghana ; *V. Presidents,* The Philippines, Arab Republic of Egypt ; *Ag. Secy.-General :* S. M. Osman (Egypt).

Asian-African Legal Consultative Committee, 20, Ring Rd., Lajpatnagar III, New Delhi 110024.

League of Arab States Mission, 62, Golf Links, New Delhi 110003. *Ag. Chief Representative & Head of Mission :* Ibrahim Shukralla.

FOREIGN TRADE COMMISSIONS IN INDIA

AUSTRALIA

E. B. Dillon, Commercial Counsellor & Trade Commr., 1/50 G, Shantipath, Chanakyapuri, New Delhi, 110021. K. Sarup, Marketing Officer, Australian Consulate-General, 9th Floor, Express Towers, Nariman Point, Bombay 400021 ; P. C. Narayanan, Marketing Officer, Australian Consulate-General, Brooke House, 9, Shakespeare Sarani, Calcutta 700016.

AUSTRIA

Austrian Trade Commr. in India, Dr. G. Diezinger, 12-A, Amrita Shergill Mrg., New Delhi 110003 ; *Austrian Trade Commr. in Bombay,* Dr. W. Larcher, The Beacon, Foreshore Rd., Bombay 400021. (Also handles Austrian trade affairs in Nepal & Bangladesh (Delhi office) and Sri Lanka (Bombay Office)).

BRITAIN

O. G. Forster, M.V.O. *Counsellor (Economic & Commercial),* British High Commission, Shantipath, Chanakyapuri, New Delhi 110021. A. C. Baker, First Secretary (Commercial) Dy. High Commission, 1, Ho Chi Min Sarani, Calcutta 700016. H. McBrinn, First Secretary (Commercial), Dy. High Commission, Mercantile Bank Bldg., M. Gandhi Rd., Bombay 400023. J. H. Gilligan, First Secretary (Commercial), Dy. High Commission, 150-A, Mount Rd., Madras 600002.

BULGARIA

Commercial Counsellor : 50, Golf Links Area, New Delhi 110003. *Trade Commr. at Bombay :* 11, Peacock Palace, 69, Bhulabhai Desai Rd., Bombay 400026. *Trade Commr. at Calcutta :* 6-A, Middleton St., Calcutta 700016.

CANADA

Counsellor (Development & Commercial), Canadian High Commission, Shantipath, Chanakyapuri, New Delhi 110021.

CZECHOSLOVAKIA

Economic & Commercial Counsellor & Trade Representative : 50-M, Niti Mrg., Chanakyapuri, New Delhi 110021. *Trade Commr. :* Kasturi Bldgs., Jamshedji Tata Rd., Bombay 400020. *Trade Commr. :* 24-B, Park St., Calcutta 700016. *Trade Commr. :* 46/47, A. B. M. Avenue, Raja Annamalaipuram High Rd., Madras 600028.

DENMARK

Trade Commission, Pallonji Mansion, New Cuffe Parade, Bombay 400005.

FRANCE

Commercial Counsellor to the French Embassy, 130, Jor Bagh, New Delhi 110003 ; Trade Commr., "Beacon," Foreshore Rd., Bombay 400021 ; Trade Commr., 13, Park Mansions, Park St., Calcutta 700016.

HUNGARY

Trade Representation of the Hungarian People's Republic : *Commercial Counsellor & Trade Representative :* Dr. J. Markus, 18, Golf Links Area, New Delhi 110003. *Trade Commr. :* Gyula Czigany, 11-A, Wodehouse Rd., Bombay 400039. *Trade Commr. :* Gyula Pozsgai, 6/2, Gurusaday Rd., Calcutta 700019.

ITALY

Trade Commr. for Italy : Dr G. Zoldester, Nirmal, 21st Flr., Nariman Point, Bombay 400021.

POLAND

Commercial Counsellor : S. Labis. *Address :* Polish Commercial Counsellor's Office, 42-44, Sunder Nagar, New Delhi 110003.

ROMANIA

Trade Representation of Socialist Republic of Romania in India, 17, Kautilya Mrg., New Delhi 110021 ; Steelcrete House, Dinshaw Vachha Rd., Bombay 400020 ; Nilhat House, 11, Rajendra Nath Mukherjee Rd., Calcutta 700001 ; 27, Khader Nawaz Khan Rd., Madras 600006.

SRI LANKA

Trade Commissioner : Sir Lanka House, 34, Homi Mody St., Bombay 400023.

U.S.S.R.

Trade Representation of U.S.S.R. in India, Plots Nos. 6 & 7, Block 50-E, Nyaya Mrg., Chanakyapuri, New Delhi 110021 ; 1, Bishop Lefroy Rd., (Large Bldg.), Calcutta 700020 ; "Avantika," 46, Dr. G. Deshmukh Mrg., Bombay 400026 ; 50-A, St. Mary's Rd., Alwarpet, Madras 600001. *Showrooms of the U.S.S.R. Machinery & Equipments :* Vasundhara House, Bhulabhai Desai Rd., Bombay 400026 and at Calcutta at the above address.

YUGOSLAVIA

Trade Commr. : Branko Radovic, Vaswani Mansion, D. Vachha Rd., Bombay 400020. *Trade Commr. :* Vlada Paradinovic, 9, Venus Colony, Madras 600018.

Note : In the case of other countries trade matters are being looked after by the respective Embassies, High Commissions and Consulates-General.

POLITICAL PARTIES

Anna Dravida Munnetra Kazhagam, 160, Lloyds Rd., Madras 600004.

Arya Sabha, Akhil Bharatiya, Pilibhit, Uttar Pradesh.

Awami League, Indian, 21, Ripon St., Calcutta-700016, West Bengal.

Backward Classes Party of India, Bahujan Vihar, Mandiri, Patna-800001, Bihar.

Bhumi Rakshak Party, Chotanagpur, New Police Line, Ranchi, Bihar.

Bolshevik Party of India, 64, Chittaranjan Ave., Calcutta-700012, West Bengal.

Communist Party, Bharater Biplabi, Central Office, 84, A. Mukherji Rd., Calcutta-700025, West Bengal.

Communist Party of India, 7/4, A. Ali Rd., New Delhi.

Communist Party of India (Marxist), Central Committee Office, 49, Lake Place, Calcutta-700019, West Bengal.

Communist Party of India, Krantikari, P.O. Kotah, Dt. Shahabad, Bihar.

Communist Party of India, Revolutionary, 5/1, Rammoy Rd., Calcutta-700025, West Bengal.

Congress, Bangla, 2, B. Bose Rd., Calcutta-700026, West Bengal.

Congress, Bharatiya Rashtriya Jan, Satya Ashram, Butlar Marg, Lucknow, Uttar Pradesh.

Congress, Biplabi Bangla, 117/B, Syama Prasad Mukherjee Rd., Calcutta-700026, West Bengal.

Congress, Indian National, 5, Dr. R. Prasad Rd., New Delhi.

Congress (O), Indian National, 7, J. Mantar Rd., New Delhi-110001.

Congress, Kerala, Kottayam, Kerala.

Congress, Lok Tantrik, Chhajubagh, Patna, Bihar.

Congress, Orissa Jana, Bhubaneswar-751001, Orissa.

Congress, Samajvadi, Gorakhpur, Uttar Pradesh.

Congress, Telengana, 6-1-2/1, Jaladrussyam, Secretariat Rd., Hyderabad, Andhra Pradesh, 500001.

Congress, Tripura, C/o Nagarik Patrika Office, Agartala, Tripura.

Congress, Utkal, Swaraj Ashram, Cuttack, Orissa.

Democratic Front, Indian National, 37 & 39, Dr. S. Mohan Ave., Calcutta-700014, West Bengal.

Dravida Munnetra Kazhagam, Arivagam, Royapuram, Madras-600013.

Forward Bloc, All India, 88, North Ave., New Delhi-110001.

Forward Bloc, Marxist, 102/1, Beliaghata Main Rd., Calcutta-700010, West Bengal.

Gomantak, Maharashtrawadi, Panaji, Goa.

Gorkha League, All India, Ledenla Rd., Darjeeling, West Bengal.

Hindu Mahasabha, Akhil Bharat, Mahasabha Bhavan, Mandir Marg, New Delhi.

Janata Party, Ramgarh House, Patna-800012, Bihar.

Janata Paksha Party, No. 1, 7th Cross, Cubbonpet, Bangalore-560002, Karnataka.

Jan Sangh, Bharatiya, Vithalbhai Patel Bhuvan, New Delhi.

Jharkhand, Bihar Prant Hul, Central Office, Main Rd., Dumka, Santhal Parganas Dt., Bihar.

Jharkhand Party, All India, 3, Strand Rd., Patna, Bihar.

Kishan Mazdoor Party, Uttar Pradesh, Kakra House, 2, Dilkusha Rd., Lucknow, Uttar Pradesh.

Krishak Samaj, Paschim Banga, 35/1B, Huzuri Mull Lane, Calcutta-700014, West Bengal.

Labour Party, All India, Lord Krishna Bldg., 1st Fl., Mandi Rd., Jullundur, Punjab.

Lok Dal, 127A, Park St., Calcutta-700017, West Bengal.

Lok Dal, Bharatiya, Room No. 1 & 3, V. P. House, Rafi Marg, New Delhi.

Lok Raj Party, Himachal Pradesh, Saran Lodge, Lakkar Bazar, Solan, Himachal Pradesh.

Lok Sevak Dal, Bungalow No. 40 & 45, Bhopal, Madhya Pradesh.

Lok Sevak Sangha, P.O. Purulia, West Bengal.

Mahasabha, Backward Classes, Vomulawada, Karim Nagar District, Andhra Pradesh.

Masihi Sabha, Punjab, Lal Kothi, Near City Light Cinema, G. Trunk Rd., Amritsar, Punjab.

Minorities Federation, Muslims and other, 21, Ripon St., Calcutta-700016, West Bengal.

Minorities Labour Party, 43, Bashir Bagh Road, Hyderabad, Andhra Pradesh.

Minorities League, 26, Taetala Lane, Calcutta-700016, West Bengal.

Muslim League, Indian Union, M. Azad Rd., Kozhikode-673001, Kerala.

Muslim Majlis, Uttar Pradesh, Sultan Manzir, Takia Pir Jalil, Lucknow, Uttar Pradesh.

Nationalist Organisation, Nagaland, Kohima, Nagaland.

Parishad, Akhil Bhartiya Ramrajya, Nigambodh Ghat, Delhi-110006.

Parishad, Bharatiya Krantikari, Zamir Bldg., Nainital Rd., Bareilly, Uttar Pradesh.

Parishad, Mazdoor, 10-A, Capper Rd., Lal Bagh, Lucknow, Uttar Pradesh.

Parishad, Vedwadi Karmawadi, 480, Kumharmandi, Kanpur Cantt. 208004, Uttar Pradesh.

Peasants and Workers Party, Central Office, M. Phule Rd., Naigaum, Bombay-400014.

Peoples' Front, 7, N. S. V. Mudaliar St., Pondicherry.

Peoples' Party, Manipur, Hotel Diplomat, Vir Tikerdrajit Rd., Imphal, Manipur.

Rashtriya Samajwadi Loktantrik Dal, Akhil Bharatiya, 150, Navea Ganeshganj, Lucknow, Uttar Pradesh.

Republican Party of India, Deeksha Bhoomi, Nagpur-440003, Maharashtra.

Republican Party of India (Ambedkarite), Nakodar Rd., Jullundur, Punjab.

Shiv Sena, 771, Ranade Rd., Bombay-400028.

Shiromani Akali Dal, Amritsar, Punjab.

Shiromani Baba Jiwan, All India, Singh Mazahbi Dal, Majitha, Punjab.

Shoshit Dal, Bihar, 109, MLA Flat, Gardiner Rd., Patna-800001, Bihar.

Shoshit Dal, Hindustani, Naya Kadamkuan, Patna-800003, Bihar.

Sikh Pratinidh Board, Uttar Pradesh, Gurdwara Rd., Lucknow, Uttar Pradesh.

Socialist Democratic Party, Nationalist, Singjamoi Bazar, Imphal, Manipur.

Socialist Party, 16, Vithalbhai Patel House, Rafi Marg, New Delhi-400001.

Socialist Party, Kerala Samyukta, M. P. Rd., Kozhikode-673001, Kerala.

Socialist Party, Revolutionary, 37, Ripon St., Calcutta-700016, West Bengal.

Socialist Party of India, Revolutionary (Marxist Leninist), 113, Pandariba, Allahabad, Uttar Pradesh.

Socialist Unity Centre of India, 48, Dharamtola St., 1st Fl., Calcutta-700013, West Bengal.

Sudharvadi Party, Bihar Prantiya, Dharhara Kothi, J. Narain Rd., Kadamkuan, Patna-800003, Bihar.

Swatantra Party, Sassoon Bldg., 143, M. Gandhi Rd., Bombay-400001.

Swatantra Sangram, Uttar Pradesh, Sainik Parishad, 60, Tirminiganj, Lucknow, Uttar Pradesh.

United Front of Nagaland, Burma Camp, Kohima, Nagaland.

United Goans (Sequeira Group), Campal, Panaji, Goa.

Upajati Zuba Samity, Tripura, C/o Buddha Deb Barma, P.O. Abhoynagar, Agartala, Tripura.

Vishal Haryana Party, Rampur-Rewari, Gurgaon Dt., Haryana.

Workers Party of India, 18, Surya Sen St., Calcutta-700012, West Bengal.

GENERAL ELECTIONS

PARLIAMENT & ASSEMBLIES

As a Sovereign Democratic Republic, India has a bicameral Legislature — The Rajya Sabha (Council of States) and Lok Sabha (The House of the People). The President heads both.

Rajya Sabha: No. of seats: 250; Nominated by President: 12; Requirements for election: Citizenship of India and over 30 years of age; Not subject to dissolution; One third members retire every three years. Members indirectly elected through State legislatures.

FIFTH LOK SABHA POLL

The Fourth Lok Sabha was dissolved on Dec. 27, 1970, 14 months before its full term. This premature dissolution was the first in India's history.

Weight of Ballot Papers: Ballot papers printed for the elections weighed in all 862 tonnes.

No. of Polling Stations: There were 342,980 polling stations — an increase of 75,425 over the 1967 general election.

Personnel Engaged: A total of nearly 1·36 million personnel were engaged for the elections.

Cost of Poll: The poll cost Rs. 150 million — 200 per cent more than the expenditure incurred in the 1967 general election.

Increase in Electorate: The electorate increased in 1970 by 20,855,185. In 1967 it was 250,591,106 and in 1971 it became 271,446,291.

Women Voters: In the first general election in 1952, only 28,132,000 (37·1 per cent) out of the 77,286,000 women voters went to the polling booths.

But, 51,128,000 out of the 94,461,000 men voters exercised their franchise, constituting 55 per cent.

LOK SABHA GENERAL ELECTIONS — PARTY POSITION

Party	First General Election 25–10–1951		Second General Election 24–2–1957 to 9–6–1957		Third General Election 16–2–1962 to 6–5–1962		Fourth General Election 15–2–1967 to 28–2–1967		Fifth General Election 1–3–1971 to 13–3–1971	
	Seats Contested	Seats Won	Seats Contested	Seats Won	Seats Contested	Seats Won	Seats Contested	Seats Won	Seats Contested	Seats Won
Congress	469	354	483	366	485	358	452	280	410	350
PSP	400	20	175	18	168	12	110	13	60	2
CPI	69	26	115	29	137	29	101	23	71	23
Jan Sangh	91	3	103	4	196	14	235	36	162	22
Others (Ind.) ..	946	83	580	71	716	44	670	44	726	43
Swatantra ..	—	—	—	—	173	18	177	42	60	8
Republican ..	—	—	—	—	68	3	66	1	46	—
CPI (M)	—	—	—	—	—	—	57	19	50	25
SSP	—	—	—	—	—	—	119	23	89	3
Akali Dal	—	—	—	—	—	—	—	—	13	1
V.H.P.	—	—	—	—	—	—	—	—	3	—
Congress (O) ..	—	—	—	—	—	—	—	—	205	16
Muslim League ..	—	—	—	—	—	—	—	—	10	3

In the 1967 general election, 66,264,000 out of the 119,434,000 women voters and 86,460,000 out of the 129,569,000 men voters registered their votes — 55·5 per cent and 66·7 per cent respectively.

While there was a sharp rise of 18·4 per cent in the number of women voters between 1952 to 1967, the increase in the case of men voters was only 11·7 per cent during this period.

The gap in the percentage of votes polled by men and women in 1952 was 17·9. This narrowed down in the subsequent general elections — 15·5 in 1962 and 11·2 in 1967.

This gap decreased further in the 1971 election when 81 million women voters cast their votes.

Lok Sabha Speakers : 1. G. V. Mavlankar 1952-56 ; 2. M. Ananthasayanam Ayyangar 1956-62 ; 3. Hukam Singh 1962-67 ; 4. N. Sanjiva Reddy 1967-69 ; 5. G. S. Dhillon 1969-71 and 1971.

States with Bicameral Legislatures : Following are the States which have an Assembly and a Legislative Council. All the other States have only a Legislative Assembly. Andhra Pradesh ; Bihar ; Maharashtra ; Karnataka ; Tamil Nadu ; and Uttar Pradesh.

Composition of Assembly : An Assembly should have not more than 500 and not less than 60 members.

Legislative Council : The strength of the Council should be one third of the total membership of the Assembly but not less than 40.

Election to Councils : *One third* of its members are elected by the Municipalities, district boards and other local authorities ; *One twelfth* by the graduates of the universities of the territory ; *One twelfth* by the teachers of institutions not lower than secondary school ; *One third* by members of the Legislative Assembly and, the remaining few are nominated by the Governor of the State.

VOTING STRENGTH OF PRESIDENTIAL POLL: The voting strength of the electoral college for Presidential election given in the following chart shows the strength of both houses of Parliament and legislative assemblies in 21 States along with the votes assigned.

Name of legislature	No. of seats	Value of votes	Votes assigned
Lok Sabha	521	721	375,641
Rajya Sabha	230	721	165,830
Assemblies :			
Andhra	287	152	43,624
Assam	114	128	14,592
Bihar	318	177	56,286
Gujarat	182	147	26,754
Haryana	81	124	10,044
Himachal Pradesh	68	51	3,468
Jammu and Kashmir	75	59	4,425
Kerala	133	161	21,413
Madhya Pradesh	296	141	41,736
Maharashtra	270	187	50,490
Manipur	60	18	1,080
Meghalaya	60	17	1,020
Nagaland	60	9	540
Karnataka	216	136	29,376
Orissa	147	149	21,903
Punjab	104	130	13,520
Rajasthan	184	140	25,760
Tamil Nadu	234	176	41,184
Tripura	60	26	1,560
Uttar Pradesh	425	208	88,400
West Bengal	280	158	44,240

Total seats in Parliament and State Assemblies : 4,405. Total votes assigned 1,082,886.

RAJYA SABHA

Chairman: B. D. Jatti; *Deputy Chairman :* Godey Murahari; *Secretary-General :* B. N. Banerjee; *Addl. Secretaries :* S. S. Bhalerao, S. P. Ganguly.

Total No. of seats : 243.

An estimate of party position in the Rajya Sabha is : Congress : 143 ; D.M.K. : 12 ; C.P.I. : 11 ; Jana Sangh : 12 ; Cong (O) : 7 ; B.L.D. : 9 ; C.P.I.(M) : 5 ; Muslim League : 5 ; B.K.D. : 3 ; Socialist Party: 2 ; Akali Dal: 2 ; A.D.M.K. : 2 ; J.F. : 2 ; P.W.P. : 1 ; United Democratic Front : 1 ; P.S.P. : 1 ; Republican : 1 ; A.P.H.L.C.: 1 ; Independents : 10 ; Nominated by the President : 11 ; Vacant : 2 ; No. of Women Members : 18.

ANDHRA PRADESH—18 : Janardhana Reddy (Cong.) ; A. S. Chowdhri (Ind.) ; K. Brahmananda Reddy (Cong.) ; V. B. Raju (Cong.) ; Kota Punnaiah (Cong.) ; Venigalla Satyanarayana (Cong.) ; M. Anandam (Cong.) ; Qasim Ali Abid (Cong.) ; V. C. Kesava Rao (Cong.) ; Gaddam Narayana Reddy (Cong.); Rata Konda Narasimha Reddy (Cong.) ; K. L. N. Prasad (Cong.) ; Smt. Ratnabai Srinivasa Rao (Cong.) ; Katragadda Srinivasa Rao (Ind.) ; K. V. Raghunatha Reddy (Cong.); M. R. Krishna (Cong.) ; Mohammad Yunus Saleem (Cong.) ; Bazawada Papi Reddy (Ind.).

ASSAM—7 : Nripati Ranjan Choudhary (Cong.) ; B. C. Bhagwati (Cong.) ; N. C. Buragohain (Cong.) ; Sriman Prafulla Goswami (Cong.) ; Bipinpal Das (Cong.) ; Emonsing M. Sangma (Cong.) ; D. K. Borooah (Cong.).

BIHAR—22 : Dr. Ramkripal Sinha (J.S.) ; Smt. Aziza Imam (Cong.) ; D. P. Singh (Cong.) ; Kamalnath Jha (Cong.) ; Chandramani Lal Chowdhary (Cong.) ; Gunanand Thakur (Cong.) ; Shyamlal Gupta (Cong.-O); Kameshwar Singh (Cong.); Yogendra Sharma (C.P.I.); Shishir Kumar (P.S.P.); Dharam Chand Jain (Cong.); Indra Deep Singh (C.P.I.); B. R. Munda (Cong.); Smt. Jahanara Jaipal Singh (Cong.) ; Bhola Prasad (C.P.I.) ; Bhola Paswan Shastri (Cong.) ; Sitaram Kesri (Cong.) ; Rajendra Kumar Poddar (Ind.) ; Sitaram Singh (B.L.D.) ; Awadheshwar Prasad Sinha (Cong.) ; Smt. Pratibha Singh (Cong.): Vacant 1.

GUJARAT—11 : Yogendra Makwana (Cong.) ; Smt. Sumitra G. Kulkarni (Cong.) ; D. K. Patel (J.S.) ; Smt. Kumudben Manishankar Joshi (Cong.) ; Himmat Sinh (Cong.) ; Ibrahim Kalania (Cong.) ; H. M. Trivedi (Cong.) ; Manubhai Shah (Cong.) ; Ramlal Parikh (J.F.) ; Virendra Shah (J.F.) ; Harisinh Mahida (Cong.).

HARYANA—5: D. D. Puri (Cong.) ; Ranbir Singh (Cong.); Parbhu Singh (Cong.); *** Krishan Kant (Cong.); Sultan Singh (Cong.).

HIMACHAL PRADESH—3: Roshan Lal (Cong.) ; Jagan Nath Bhardwaj (Cong.) ; Gain Chand Totu (Cong.).

JAMMU AND KASHMIR—4: Om Mehta (Cong.) ; Syed Nizamu-ud-din (Cong.); Tirath Ram Amla (Cong.); Vacant 1.

KARNATAKA—12: Veerendra Patil (Cong. O) ; Malappa Lingappa Kollur (Cong.) ; Dr. K. Nagappa Alva (Cong. (O)); Mulka Govinda Reddy (Cong.); Smt. Margaret

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*** Expelled from the Party.

Alva (Cong.); T. A. Pai (Cong.); B. Rachaiah (Cong.); U. K. Lakshmana Gowda (Ind.); Maqsood Ali Khan (Cong.); K. S. Malle Gowda (Ind.); B. P. Nagaraja Murthy (Cong.); H. S. Narasiah (Cong.).

KERALA—9: Hamid Ali Schamnad (M.L.); P. K. Kunjachen (C.P.I. — M); Smt. Leela Damodra Menon (Cong.); Viswanatha Menon (C.P.I. — M); B. V. Abdulla Koya (M.L.); Dr. V. A. Seyid Muhammed (Cong.); Dr. K. Mathew Kurian (C.P.I. — M); K. Chandrasekharan (S.P.); S. Kumaran (C.P.I.).

MADHYA PRADESH—16: S. C. Angre (J.S.); Jagdish Joshi (Cong.); Bhawaniprasad Tiwary (Cong.); Smt. Vidyawati Chaturvedi (Cong.); Narayan Prasad Chaudhuri (Cong.); M. B. Singh (Cong.); Balram Das (Cong.); Vijaya Bhusan Deosharan (J.S.); Smt. Maimoona Sultan (Cong.); Bhairon Singh Shekhawat (J.S.); Smt. Shyamkumari Devi (Cong.); Chakrapani Shukla (Cong.); Sawaisingh Sisodia (Cong.); Shankarlal Tiwari (Cong.); Nand Kishore Bhatt (Cong.); V. K. Sakhelecha (J.S.).

MAHARASHTRA—19: Narayan Ganesh Goray (S.P.); S. Vasudeorao Dhabe (Cong.); Deorao Patil (Cong.); Babubhai M. Chinai (Ind.); Prof. Narendra Marutrao Kamble; (Cong.); R. D. Jagtap Avergoankar (Cong.); Sikandar Ali Wajd (Cong.); Vithal Gadgil (Cong.); N. H. Kumbhare (Rep.); Arvind Ganesh Kulkarni (Cong.); Krishnarao Narayan Dhulap (P.W.P.); Smt. Sushila Shankar Adivarekar (Cong.); G. R. Patil (Cong.); S. B. Bobdey (Cong); Jayant Shridhar Tilak (Cong.); S. G. Sardesai (C.P.I.); D. Y. Pawar (B.K.D.); V. R. Parashar (Cong.); M. R. Vyas (Cong.).

MANIPUR—1: Irengbam Tompok Singh (Cong.).

MEGHALAYA—1: Showaless K. Shilla (APHLC).

NAGALAND—1: Khoyomo Lotha (UDF).

ORISSA—10: Brahmananda Panda (Cong.); Binoy Kumar Mahanti (Cong.); C. P. Majhi (Cong.); Bira Kesari Deo (B.L.D.); K. P. Singh Deo (B.L.D.); Rabi Ray (B.L.D.); Lakshmana Mahapatro (C.P.I.); Lokanath Misra (B.L.D.); B. C. Mahanti (Cong.); Smt. Saraswati Pradhan (Cong.).

PUNJAB—7: Mohan Singh (Cong.); Jagjit Singh Anand (C.P.I.); Bhupindar Singh (Ak. Dl.); Gurcharan Singh Tohra (Ak. Dal.); Inder Kumar Gujral (Cong.); Gurmukh Singh Musafir (Cong.); Niranjan Singh Talib (Cong.).

RAJASTHAN—10: Nathi Singh (Cong.); Smt. Lakshmi Kumari Chundawat (Cong.); Jagdish Prasad Mathur (J.S.); Jamnalal Berwa (Cong.); Smt. Narayanidevi Manaklal Varma (Cong.); Mohammad Usman Arif (Cong.); Ram Niwas Mirdha (Cong.); Rishi Kumar Mishra (Cong.); Kishan Lal Sharma (Cong.); Ganesh Lal Mali (Cong.).

TAMIL NADU—18: A. K. Refaye (M.L.); T. K. Srinivaisan (D.M.K.); K. A. Krishnaswamy (A.D.M.K.); Kanch Kalyanasundaram (D.M.K.); M. Kadershah (D.M.K.); K. Kamalanathan (D.M.K.); C. D. Natrajan (D.M.K.); S. S. Mariswamy (D.M.K.); S. Ranganathan (Ind.); M. C. Balan (A.D.M.K.); S. S. Rajendran (D.M.K.); T. V. Anandan (Cong. O); M. S. Abdul Khader (D.M.K.); V. V. Swaminathan (D.M.K.); A. K. A. Abdul Samad (M.L.); G. Lakshmanan (D.M.K.); John Alias Valampuri John (D.M.K.); S. A. Khaja Mohideen (M.L.).

TRIPURA—1: Birchandra Deb Varman (C.P.I.).

UTTAR PRADESH—34: Banarsi Das (Cong.—O); Dattopant Thengari (J.S.); Kalp Nath (Cong.); Sukhdev Prasad (Cong.); Jagbir Singh (B.L.D.); Devendra Nath Dwivedi (Cong.); Piare Lall Kureel Urf Talib (Cong.); Yashpal Kapur (Cong.); Nawal Kishore (Cong.); Mahavir Tyagi (Cong.—(O); Harsh Deo Malaviya (Cong.); Prof. S. Nurul Hasan (Cong.); Triloki Singh (Cong.); Prakash Veer Shastri (J.S.); Anand Narain Mulla (Cong.); Mahadeo Prasad Varma (B.L.D.); M. S. Oberoi (B.K.D.); Nageshwar Prasad Shani (Cong.); Kalyan Chand (Cong.); T. N. Singh (Cong. — O); Uma Shankar Dikshit (Cong.); Chandra Shekhar (Cong.); Raj Narain (B.L.D.) Shiv Dayal Singh Chaurasia (Cong.); Dr. V. B. Singh (Cong.); Dr. Z. A. Ahmad (C.P.I.); Godey Murahari (Ind.); Omprakash Tyagi (J.S.); Subramanian Swamy (J.S.); Shyamlal Yadav (B.K.D.); Mahabir Prasad Shukla (Cong.); Inder Singh (Cong.); Kamlapati Tripathi (Cong.); Syed Ahmad Hashmi (Cong.).

WEST BENGAL—16: Sasankasekhar Sanyal (C.P.I. — M); Sardar Amjad Ali (Cong.); Dr. Rajat Kumar Chakrabarti (Cong.); Krishna Bahadur Chettri (Cong.); Dwijendralal Sen Gupta (Ind.); Bhupesh Gupta (C.P.I.); Kali Mukherjee (Cong.); Smt. Purabi Mukhopadhyay (Cong.); Salil Kumar Ganguli (C.P.I.—M.); Sanat Kumar Raha (C.P.I.); D. P. Chattopadhyay (Cong.); P. K. Mukherjee, (Cong.); Kalyan Roy (Cong.); Jahar Lal Banerjee (Cong.); Ahmad Hussain Mondal (Cong.); Mrs. Pratima Bose (Cong.).

ARUNACHAL PRADESH—1: Todak Basa (Cong.), (Nominated by the President).

DELHI—3: Khurshed Alam Khan (Cong.); Smt. Savita Behen (Cong.); Lal K. Advani (J.S.).

MIZORAM—1: Lalbuaia (Cong.).

PONDICHERRY—1: S. Sivaprakasam (D.M.K.).

NOMINATED BY THE PRESIDENT—12: Rasheduddin Khan (Ind.); C. K. Daphtary (Ind.); Umashankar Joshi (Ind.); Jairamdas Daulatram (Ind.); Pramatha Nath Bisi (Ind.); Dr. Lokesh Chandra (Ind.); Smt. Maragatham Chandrasekhar (Cong.); Krishna Kripalani (Ind.); Habib Tanvir (Ind.); Abu Abraham (Ind.); Scato Swu (Ind.); Dr. V. P. Dutt (Ind.).

LOK SABHA

Speaker: Dr. Gurdial Singh Dhillon.

Dy. Speaker: G. G. Swell.

Secretary: S. L. Shakdher.

Maximum No. of seats according to the Constitution 525 (500 States + 25 Union Territories); Presidential appointments: 2 if Anglo-Indian Community not properly represented; Term: 5 years from the day of first sitting.

Present Strength 524.

Party Position:—Congress 358; Communist Marxists 26; Communists 24; Dravida Munnetra Kazhagam: 18; Anna D.M.K. 6; Jan Sangh 20; Congress (O) 12; Telengana Praja Samiti 2; Swatantra 7; Socialist Party 5; Revolutionary Socialist Party 3; Kerala Congress 3; Muslim League 3; Forward Bloc 2; Bharatiya Kranti Dal 2; Independents and others 27; Vacant 6; No. of women members: 25.

Reserved Seats: Scheduled Castes 77 Scheduled Tribes 41.

ANDHRA PRADESH — 41 : P. Ganga Reddy (Cong.), (*Adilabad*); B. S. Murthy (Cong.), (*Amalapuram—S.C.*); S. R. A. S. Appala Naidu (Cong.), (*Anakapalli*); P. Anthony Reddi (Cong.), (*Ananthapur*); Smt. B. Radhabai Ananda Rao (Cong.), (*Bhadrachalam—S.T.*); K. Narayana Rao (Cong.), (*Bobbili*); P. Narasimha Reddy (Cong.), (*Chittoor*); Y. Eswara Reddy (C.P.I.), (*Cuddapah*); K. Suryanarayana (Cong.), (*Eluru*); M. Ankineedu (Cong.), (*Gudivada*); K. Raghuramaiah (Cong.), (*Guntur*); P. Bayappa Reddy (Cong.), (*Hindupur*); Dr. G. S. Melkote (Cong.), (*Hyderabad*); M S. Sanjeevi Rao (Cong.), (*Kakinada*); M. Satyanarayanarao (TPS), (*Karimnagar*); P. V. Reddy (Cong.), (*Kavali*); *Smt. T. Lakshmi Kanthamma (Cong.), (*Khammam*); K. Kodandarami Reddy (Cong.), (*Kurnool*).

J. Rameswar Rao (Cong.), (*Mahbubnagar*); M. Nageswara Rao (Cong.), (*Machilipatnam*); Mallikarjun (Cong.), (*Medak*); M. Bhishma Dev (Cong.), (*Nagarkurnool—S.C.*); K. Ramakrishna Reddy (Cong.), (*Nalgonda*); P. Venkatasubbhaiah (Cong.), (*Nandyal*); M. T. Raju (Cong.), (*Narasapur*); M. Sudarsanam (Cong.), (*Narasaraopet*); D. Kamakshaiah (Cong.), (*Nellore—S.C.*); B. Narasimha Reddy (C.P.I.-M.), (*Niryalguda*); M. Ramagopal Reddy (Cong.), (*Nizamabad*); Ankinedu Prasada Rao (Cong.), (*Ongole*); B. Satyanarayana (Cong.), (*Parvatipuram—S.T.*); V. Tulsi Ram (Cong.), (*Peddapalli—S.C.*); S. B. P. Pattabhiramarao (Cong.), (*Rajahmundry*); P. Parthasarathy (Cong.), (*Rajampet*); M. M. Hashim (Cong.), (*Secunderabad*); G. Venkataswamy (Cong.), (*Siddipet—S.C.*); B. Rajagopal Rao (Cong.), (*Srikakulam*); T. Balakrishnaiah (Cong.), (*Tirupathi—S.C.*); Dr. K. L. Rao (Cong.), (*Vijayawada*); P. V. G. Raju (Cong.), (*Visakhapatanam*); S. B. Giri (T.P.S.), (*Warangal*).

ASSAM—14 : Ismail Hussain Khan (Cong.), (*Barpeta*); Nural Huda (C.P.I.—M), (*Cachar*); Biren Engti (Cong.), (*Diphu—S.T.*); Moinul Haque Choudhury (Cong.), (*Dhubri*); Robin Kakoti (Cong.), (*Dibrugarh*); Dinesh Chandra Goswami (Cong.), (*Gauhati*); Tarun Gogoi (Cong.), (*Jorhat*); Bedabrata Barua (Cong.), (*Kaliabor*); Nihar Laskar (Cong.), (*Karimganj—S.C.*); Dharanidhar Busumatari (Cong.), (*Kokrajhar—S.T.*); Biswanarayan Shastri (Cong.), (*Lakhimpur*); Dharanidhar Das (Cong.), (*Mangaldai*); L. D. Kotoki (Cong.), (*Nowgong*); Kamala Prasad (Cong.), (*Tezpur*).

BIHAR — 53 : Tulmohan Ram (Cong.), (*Araria—S.C.*); S. N. Sinha (Cong.-O), (*Aurangabad*); Bhola Raut (Cong.), (*Bagaha—S.C.*); Madhu Limaye (S.P.), (*Banka*); Dharam Bir Sinha (Cong.), (*Barh*); S. N. Mishra (Cong.—O), (*Begusarai*); Vacant (*Bettiah*); Bhagwat Jha Azad (Cong.), (*Bhagalpur*); Sheopujan Shastri (Cong.), (*Bikramganj*); A. P. Sharma (Cong.), (*Buxar*); Ram Sekhar P. Singh (Cong.), (*Chapra*); Shankar Dayal Singh (Cong.), (*Chatra*); Vacant (*Darbhanga*); R. N. Sharma (Cong.), (*Dhanbad*); S. C. Besra (Cong.), (*Damka—S.T.*); Ishwar Choudhry (J.S.), (*Gaya—S.C.*); C. Bhattacharya (Cong.), (*Giridih*); Jagdish N. Mandal (Cong.), (*Godda*); Pandit Dwarkanath Tiwari (Cong.), (*Gopalganj*); Digvijay Narain Singh (Cong. O), (*Hajipur*); Damodar Pandey (Cong.), (*Hazaribagh*); Bhogendra Jha (C.P.I.), (*Jainagar*); Swaran Singh Sokhi (Cong.), (*Jamshedpur*); Bhola Manjhi (C.P.I.), (*Jamui—S.C.*); Chandra Sekhar Singh (C.P.I.), (*Jehanabad*).

Gyaneswar Prasad Yadav (J.S.), (*Katihar*); K. M. Madhukar (C.P.I.), (*Kesaria*); Shiv Shankar P. Yadav (Ind.), (*Khagaria*); N. E. Horo (Ind.), (*Khunti—S.T.*); Md. Jamiburrahman (Cong.), (*Kishanganj*); Kartik Oraon (Cong.), (*Lohardaga—S.T.*); Rajendra Prasad Yadav (Cong.), (*Madhipura*); Jagannath Mishra (Cong.), (*Madhubani*); Ram Deo Singh (S.P.), (*Maharajganj*); D. P. Yadav (Cong.), (*Monghyr*); Bibhuti Mishra, (Cong.), (*Motihari*); Nawal Kishore Singh (Cong.), (*Muzaffarpur*); Sidheswari Prasad (Cong.), (*Nalanda*); Sukhdeo Prasad Verma (Cong.), (*Nawada*); Kumari Kamala Kumari (Cong.), (*Palamau—S.C.*); Ramavatar Shastri (C.P.I.), (*Patna*); Hari Kishore Singh (Cong.), (*Pupri*); Mohammad Tahir (Cong.), (*Purnea*); Yogesh Chander Murmu (Cong.), (*Rajmahal—S.T.*); Prasanta Kumar Ghosh (Cong.), (*Ranchi*); Ram Bhagat Paswan (Cong.), (*Rosera—S.C.*); Chiranjib Jha (Cong.), (*Saharsa*); Yamuna Prasad Mandal (Cong.), (*Samastipur*); Jagjivan Ram (Cong.), (*Sasaram—S.C.*); Baliram Bhagat (Cong.), (*Shahabad*); M. S. Purty (Ind.), (*Singhbhum—S.T.*); N. P. Yadav (Cong.), (*Sitamarhi*); Mohamad Yusuf (Cong.), (*Siwan*).

GUJARAT — 24 : P. G. Mavalankar (Ind.), (*Ahmedabad*); Dr. Jivraj Mehta (Cong.), (*Amreli*); Pravinsinh Solanki (Cong.—O), (*Anand*); Popatlal M. Joshi (Cong.), (*Banaskantha*); Parsannabhai Mehta (Cong.—O), (*Bhavnagar*); Vacant (*Bharuch*); Prabhudas Patel (Cong.), (*Dabhoi*); H. M. Patel (Swa.), (*Dhandhuka*); B. R. Parmar Cong.—O), (*Dohad—S.T.*); Somchand Solanki (Cong.) —O), (*Gandhinagar—S.C.*); Piloo Mody (Swa.), (*Godhra*); D. P. Jadeja (Cong.), (*Jamnagar*); N. R. Vekaria (Cong.), (Junagarh); D. D. Desai (Cong.), (*Kaira*); Dr. Mahipatray Mehta (Cong.), (*Kutch*); Amarsinh Choudhary (Cong.), (*Mandvi—S.T.*); Natwarlal Patel (Cong.), (*Mehsana*); Khemchandbhai Chawda (Cong.—O), (*Patan—S.C.*); Arvind M. Patel (Cong.), (*Rajkot*); Kumari Maniben V. Patel (Cong.—O), (*Sabarkantha*); Morarji R. Desai (Cong.—O), (*Surat*); Rasiklal Parikh (Cong.), (*Surendranagar*); Fatesinghrao Gaekwad (Ind.), (*Vadodara*); Nanubhai N. Patel (Cong.—O), (*Valsad—S.T.*).

HARYANA — 9 : Ch. Ram Prakash (Cong.), (*Ambala—S.C.*); Tayyab Hussain (Cong.), (*Gurgaon*); Mani Ram Godara (Cong.), (*Hissar*); Sher Singh (Cong.), (*Jhajjar*); G. L. Nanda (Cong.), (*Kaithal*); M. R. Sherma (Cong.), (*Karnal*); Birender Singh Rao (Ind.), (*Mahendragarh*); Mukhtiar Singh Malik (J.S.), (*Rohtak*); Dalbir Singh (*Cong.*), (*Sirsa—S.C.*).

HIMACHAL PRADESH — 4 : Narain Chand Parashar (Cong.), (*Hamirpur*); Vikram Mahajan (Cong.), (*Kangra*); Virbhadra Singh (Cong.), (*Mandi*); Pratap Singh (Cong.), (*Simla—S.C.*).

JAMMU AND KASHMIR — 6 : Shafi Mohd. Quareshi (Cong.), (*Anantnag*); Syed Ahmed Agha (Cong.), (*Baramulla*); Inder J. Malhotra (Cong.), (*Jammu*); Kushak Bakula (Cong.), (*Ladakh*); S. A. Shamim (Ind.), (*Srinagar*); Dr. Karan Singh (Cong.), (*Udhampur*).

KARNATAKA — 27 : S. B. Patil (Cong.), (*Bagalkot*); K. Hanumanthaiya (Cong.), (*Bangalore*); A. K. Kotra Shetty (Cong.), (*Belgaum*); Dr. V. K. R. V. Rao (Cong.), (*Bellary*); B. R. Shankerdev (Cong.), (*Bidar—S.C.*); B. E. Chaudhary (Cong.), (*Bijapur*); S. M. Siddayya (Cong.), (*Chamarajanagar—S.C.*); B. Shankaranand (Cong.), (*Chikodi—S.C.*); D. B. Chandre Gowda (Cong.), (*Chikmagalur*); Kondajji Basappa (Cong.), (*Chitradurga*); Dr. Sarojini Mahishi (Cong.), (*Dharwar—North*); F. H. Mohsin (Cong.), (*Dharwar—South*); S. R. Reddy (Cong.), (*Gulbarga*); Nuggehalli Shivappa (Cong.), (*Hassan*); M. V. Krishnappa (Cong.), (*Hoskote*); B. V. Naik (Cong.), (*Kanara*); C. K. Jaffer Shariff (Cong.), (*Kanakapura*); G. Y. Krishnan (Cong.), (*Kolar—S.C.*); Sidrameshwar Swamy (Cong.), (*Koppal*); K. Mallanna (Cong.), (*Madhugiri*); K. Chikkalingaiah (Cong.), (*Mandya*); K. K. Shetty (Cong.), (*Mangalore*); H. Tulsidas Dasappa (Cong.), (*Mysore*); Pampan Gowda (Cong.), (*Raichur*); T. V. C. Veerabasappa (Cong.), (*Shimoga*); K. Lakkappa (Cong.), (*Tumkur*); P. Ranganath Shenoy (Cong.), (*Udipi*).

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* Expelled from the Party.

KERALA — 19 : Smt. Bhargavi Thankappan (C.P.I.), (*Adoor—S.C.*) ; K. Balakrishnan (R.S.P.), (*Ambalapuzha*) ; K. P. Unnikrishnan (Cong.), (*Badagara*) ; Vayalar Ravi (Cong.), (*Chirayinkil*) ; Henry Austin (Cong.), (*Ernakulam*) ; Ramachandran Kadannappalli (Cong.), (*Kasargod*) ; Varkey George (K.C.), (*Kottayam*) ; Ebrahim Sulaiman Sait (M.L.), (*Kozhikode*) ; C. H. Mohammed Koya (M.L.), (*Manjeri*) ; R. Balakrishna Pillai (K.C.), (*Mavelikkara*) ; A. C. George (Cong.), (*Mukundapuram*) ; C. M. Stephen (Cong.), (*Muvattupuzha*) ; A. K. Gopalan (C.P.I.—M.), (*Palghat*) ; M. M. Joseph (K.C.), (*Peermade*) ; M. K. Krishnan (C.P.I.—M.), (*Ponnani—S.C.*) ; N. Srikantan Nair (R.S.P.), (*Quilon*) ; C. K. Chandrappan (C.P.I.),—*Tellicherry*) ; C. Janardhanan (C.P.I.),(*Trichur*) ; Vacant (*Trivandrum*).

MADHYA PRADESH — 37 : C. D. Gautam (Cong.), (*Balaghat*) ; Lambhodar Baliyar (Cong.), (*Bastar—S.T.*) ; N. K. P. Salve (Cong.), (*Betul*) ; Smt. Vijayaraje Scindia (J.S.), (*Bhind*) ; Dr. S. D. Sharma (Cong.), (*Bhopal*) ; Ram Gopal Tiwari (Cong.), (*Bilaspur*) ; G. S. Mishra (Cong.), (*Chhindwara*) ; V. Shankar Giri (Cong.), (*Damoh*) ; B. S. Chowhan (J.S.), (*Dhar—S.T.*) ; Chandulal Chandrakar (Cong.), (*Durg*) ; Madhav Rao Scindia (J.S.), (*Guna*) ; Atal Behari Vajpayee (J.S.), (*Gwalior*) ; Ch. Nitiraj Singh (Cong.), (*Hoshangabad*) ; Ram Singh Bhai (Cong.), (*Indore*) ; Sharad Yadav (Ind.), (*Jabalpur*) ; Bhagatram Rajaram Manhar (Cong.), (*Janjgir—S.C.*) ; Bhagirath Bhanwar (S.P.), (*Jhabua—S.T.*).

Arvind Netam (Cong.), (*Kanker—S.T.*) ; G. C. Dixit (Cong.), (*Khandwa*) ; R. V. Bade (J.S.), (*Khargone*) ; Srikrishna Agarwal (Cong.), (*Mahasamund*) ; M. G. Uikey (Cong.), (*Mandla—S.T.*) ; Dr. L. N. Pandey (J.S.), (*Mandsaur*) ; Hukam Chand Kachwai (J.S.), (*Morena—S.C.*) ; Umed Singh Rathia (Cong.), (*Raigarh—S.T.*) ; V. C. Shukla (Cong.), (*Raipur*) ; Ram Sahai Pandey (Cong.), (*Rajnandgaon*) ; Martand Singh (Ind.), (*Rewa*) ; Smt. Sahodrabhai Rai (Cong.), (*Sagar—S.C.*) ; Narendra Singh (J.S.), (*Satna*) ; Dhan Shah Pradhan (Ind.), (*Shahdol—S.T.*) ; Jagannathrao Joshi (J.S.), (*Shahjapur*) ; Rama Bahadur Singh (Ind.), (*Sidhi*) ; Baboonath Singh (Cong.), (*Surguja—S.T.*) ; Nathuram Ahirwar (Cong.), (*Tikamgarh—S.C.*) ; Phool Chand Verma (J.S.), (*Ujjain—S.C.*) ; Ram Nath Goenka (Ind.), (*Vidisha*).

MAHARASHTRA — 45 : A. P. Shinde (Cong.), (*Ahmednagar*) ; Vasant Sathe (Cong.), (*Akola*) ; K. G. Deshmukh (Cong.), (*Amravati*) ; Manikrao Palodkar (Cong.), (*Aurangabad*) ; R. K. Khadilkar (Cong.), (*Baramati*) ; J. P. Dubey (Cong.), (*Bhandara*) ; S. T. Pandit (Cong.), (*Bhir*) ; Bhao Sahib Dhamankar (Cong.), (*Bhiwandi*) ; Smt. Roza V. Deshpande (C.P.I.), (*Bombay Central*) ; S. A. Kader (Cong.), (*Bombay Central-South*) ; Raja Kulkarni (Cong.), (*Bombay North-East*) ; H. R. Gokhale (Cong.), (*Bombay North-West*) ; Dr. Kailas (Cong.), (*Bombay South*) ; Y. S. Mahajan (Cong.), (*Buldana*) ; Sheikh A. Shafi (Cong.), (*Chanda*) ; K. R. Thakur (Cong.), (*Chimur*) ; L. K. Dumda (Cong.), (*Dahanu—S.T.*) ; C. A. Patil (Cong.), (*Dhulia*) ; Dattajirao Kadam (Cong.), (*Hatkangale*) ; K. R. Patil (Cong.), (*Jalgaon*) ; Babu Rao Janglu Kale (Cong.), (*Jalna*).

Smt. Premlata D. Chavan (Cong.), (*Karad*) ; A. S. Kasture (Cong.), (*Khemgaon—S.C.*) ; A. R. Patil (Cong.), (*Khed*) ; Shankarrao Sawant (Cong.), (*Kolaba*) ; R. D. Nimbalkar (Cong.), (*Kolhapur*) ; E. V. Vikhe Patil (Cong.), (*Kopergaon*) ; T. D. Kamble (Cong.), (*Latur—S.C.*) ; Z. M. Kahandole (Cong.), (*Malegaon—S.T.*) ; Jambuwant Dhote, (F.B.), (*Nagpur*); V. B. Tarodekar (Cong.), (*Nanded*); T. H. Gavit (Cong.), (*Nandurbar—S.T.*) ; B. R. Kavade (Cong.), (*Nasik*) ; T. A. Patil (Cong.), (*Osmanabad*) ; N. S. Kamble (Ind.), (*Pandharpur—S.C.*) ; S. S. Deshmukh (Cong.), (*Parbhani*) ; *** Mohan Dharia (Cong.), (*Pune*) ; Madhu Dandawate (S.P.), (*Rajapur*) ; Ram Hedau (Ind.), (*Ramtek*) ; S. L. Peje (Cong.), (*Ratnagiri*) ; Y. B. Chavan (Cong.), (*Satara*) ; Annasaheb Gotkhinde (Cong.), (*Sangli*) ; S. R. Damani (Cong.), (*Sholapur*) ; J. G. Kadam (Cong.), (*Wardha*) ; S. B. Thakre (Cong.), (*Yeotmal*).

MANIPUR — 2 : N. Tombi Singh (Cong.), (*Inner Manipur*) ; Paokai Haokip (Cong.), (*Outer Manipur—S.T.*).

MEGHALAYA — 2 : Prof. G. G. Swell* (Ind.), (*Shillong—S.T.*) ; Karnesh Marak (Ind.), (*Tura—S.T.*).

NAGALAND — 1 : A. Kevichusa (Ind.).

ORISSA — 20 : P. Gangadeb (Cong.), (*Angul*) ; Shyam Sunder Mohapatra (Cong.), (*Balasore*) ; Arjun Sethi (Cong.), (*Bhadrak—S.C.*) ; Dutikrushna Panda (C.P.I.), (*Bhanjanagar*) ; Chintamani Panigrahi (Cong.), (*Bhubaneshwar*) ; R. R. Singh Deo (Swa.), (*Bolangir*) ; Jagannath Rao (Cong.), (*Chatrapur*) ; Janaki Ballav Patnaik (Cong.), (*Cuttack*); Devendra Satpathy (Cong.), (*Dhenkanal*) Anadi Charan Das (Cong.), (*Jajpur—S.C.*) ; P. K. Deo (Swa.), (*Kalahandi*) ; Surendra Mohanty (Ind.), (*Kendrapara*) ; Kumar Majhi (Cong.), (*Koenjhar—S.T.*) ; G. Gomango (Cong.), (*Koraput—S.T.*) ; Chandra Mohan Sinha (*Ind.*), (*Mayurbhanj—S.T.*) ; K. Pradhani (Cong.), (*Nowrangpur—S.T.*) ; Baksi Nayak (Swa.), (*Phulbani—S.C.*) ; Banamali Patnaik (Cong.), (*Puri*) ; Banamali Babu (Cong.), (*Sambalpur*) ; Gajadhar Majhi (Cong.), (*Sundargarh—S.T.*).

PUNJAB — 13 : Raghunandan Lal Bhatia (Cong.), (*Amritsar*) ; B. S. Bhaura (C.P.I.), (*Bhatinda—S.C.*) ; Gurdas Singh Badal (Ind.), (*Fazilka*) ; Mohinder Singh Gill (Cong.), (*Ferozepore*) ; Prabhodh Chandra (Cong.), (*Gurdaspur*) ; Darbara Singh (Cong.), (*Hoshiarpur*) ; Sardar Swaran Singh (Cong.), (*Jullundur*) ; Devinder Singh Garcha (Cong.), (*Ludhiana*) ; Sat Pal Kapur (Cong.), (*Patiala*) ; Vacant (*Phillaur—S.C.*) ; Buta Singh (Cong.), (*Rupar—S.C.*) ; Vacant (*Sangrur*) ; Dr. G. S. Dhillon* (Cong.), (*Taran Taran*).

RAJASTHAN—23 : Bashweshwarnath Bhargava (Cong.), (*Ajmer*) ; Dr. H. P. Sharma (Cong.), (*Aluar*) ; Hiralal Doda (Cong.), (*Banswara—S.T.*) ; Amrit Nahata (Cong.), (*Barmer*) ; Raj Bahadur (Cong.), (*Bharatpur*) ; Hemendra Singh Banera (J.S.), (*Bhilwara*) ; Dr. Karni Singh (Ind.), (*Bikaner*) ; Bishwanath Jhunjhunwala (*Ind.*), (*Chittorgarh*) ; Nawal Kishore Sharma (Cong.), (*Dausa*) ; Pannalal Barupal (Cong.), (*Ganganayar—S.C.*) ; Jagannath Pahadia (Cong.), (*Hindaun—S.C.*) ; Smt. Gayatri Devi (Swa.), (*Jaipur*) ; N. K. Sanghi (Cong.), (*Jalore*) ; Brijraj Singh (Cong.), (*Jhalawar*) ; Smt. Krishna Kumari (Ind.), (*Jodhpur*) ; S. N. Singh (Cong.), (*Jhunjhunu*) ; Onkar Lal Berwa (J.S.), (*Kota—S.C.*) ; Nathuram Mirdha (Cong.), (*Nagaur*) ; Mool Chand Daga (Cong.), (*Pali*) ; Chuthen Lal (Cong.), (*Sawai-Madhopur—S.T.*) ; Srikishan Modi (Cong.), (*Sikar*) ; Ram Kanwar (Swa.), (*Tank—S.C.*) ; Lalji Bhai (J.S.), (*Udaipur—S.T.*).

TAMIL NADU — 39 : V. Mayavan (D.M.K.), (*Chidambaram—S.C.*) ; C. Chittibabu (D.M.K.), (*Chingleput*) ; Smt. Parvati Krishnan (C.P.I.), (*Coimbatore*) ; S. Radhakrishnan (Cong.), (*Cuddalore*) ; C. T. Dandapani (D.M.K.), (*Dharampuram—S.C.*) ; K. Maya Thevar (A.D.M.K.), (*Dindigul*) ; P. A. Swaminathan (D.M.K.), (*Gobichettipalayam*) ; K. Gopal (Cong.), (*Karur*); M. Deiveekan (D.M.K.), (*Kallakurichi*) ; C. Subramaniam (Cong.), (*Krishnagiri*) ; Era Sezhian (D.M.K.), (*Kumbakonam*) ; K. Manoharan (A.D.M.K.), (*Madras-North*) ; Murasoli Maran (D.M.K.), (*Madras-South*) ; R. V. Swaminathan

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* Speaker & Dy. Speaker, Lok Sabha have no party affiliation as long as they are in Office.

*** Expelled from the Party.

(Cong.), (*Madurai*); K. Subravelu (D.M.K.), (*Mayuram—S.C.*); G. Bhuvarahan (Cong.), (*Mettur*); M. Kathamuthu (C.P.I.), (*Nagapattinam*); K. Kamaraj (Cong.–O), (*Nagercoil*); J. M. Gowder (D.M.K.), (*Nilgiris*).

S. M. Mohammed Sheriff (M.L.), (*Pariakulam*); A. Duarairasu (D.M.K.), (*Perambalur—S.C.*); Mohan Raj (D.M.K.), (*Pollachi*); K. Veeriah (D.M.K.), (*Pudukkottai*); P. K. M. Thevar (F.B.), (*Ramanathapuram*); E. R. Krishnan (D.M.K.), (*Salem*); Tha Kiruttinam (D.M.K.), (*Sivaganga*); Smt. V. Jayalakshmi (Cong.), (*Sivakasi*); T. S. Lakshmanan (D.M.K.), (*Sriperumbudur—S.C.*); A. M. Chellachamy (Cong.), (*Tenkasi—S.C.*); S. D. Somasundaram (A.D.M.K.), (*Thanjavur*); M. R. Lakshminarayanan (Cong.), (*Tindivanam*); M. S. Sivasamy (D.M.K.), (*Tiruchendur*); M. Muthuswamy (A.D.M.K.), (*Tiruchengode*), M. Kalyansundaram (C.P.I.), (*Tiruchirapalli*); S. A. Muruganantham (C.P.I.), (*Tirunelveli*); C. K. Chinnaraji (D.M.K.), (*Tiruppattur*); O. V. Alagesan (Cong.), (*Tiruttani*); R. P. Ulaganambi (D.M.K.), (*Vellore—S.C.*); G. Vishwanathan (A.D.M.K.), (*Wandiwash*).

TRIPURA — 2 : D. Deb (C.P.M.), (*TripuraEast—S.T.*); Biren Dutta (C.P.M.), (*Tripura West*).

UTTAR PRADESH — 85 : Achal Singh (Cong.), (*Agra*); Ramji Ram (Cong.), (*Akbarpur—S.C*); Shiv Kumar Shastri (B.K.D.), (*Aligarh*); Jeneshwar Misra (B.K.D.), (*Allahabad*); Narendra Singh Bisht (Cong.), (*Almora*), Ishaq Sambhali (C.P.I.), (*Amroha*), Vidya Dhar Bajpai (Cong.), (*Amethi*); Smt. Savitri Shyam (Cong.), (*Aonla*); Chandrajit Yadav (Cong.), (*Azamgarh*); Ram Chandra Vikal (Cong.), (*Baghpat*); Badlu Ram Shukla (Cong.), (*Bahraich*), Chandra Bhai M. Tewari (Cong.), (*Balrampur*); Chandrika Prasad (Cong.), (*Ballia*); Ram Ratan Sharma (J.S.), (*Banda*); R. S. Prasad (Cong.), (*Bansgaon—S.C.*); Rudra Pratap Singh (Cong.), (*Bara Banki*); Satish Chandra (Cong.), (*Bareilly*), A. P. Dhusia (Cong.), (*Basti—S.C.*); Ram Dayal (Cong.), (*Bijnor—S.C.*); Smt. Sushila Rohtagi (Cong.), (*Bilhaur*); Karan Singh Yadav (Cong.), (*Budaun*); Surendra Pal Singh (Cong.), (*Bulandshahr*).

Chhotey Lal (Cong.), (*Chail.*): Sudhakar Pandey (Cong.), (*Chandauli*); Mulk Raj Saini (Cong.), (*Dehra Dun*): Bishwanath Roy (Cong.), (*Deoria*); K. D. Malaviya (Cong.), (*Domariaganj*); Rohanlal Chaturvedi (Cong.), (*Etah*); S. S. Tiwari (Cong.), (*Etawah*); Ram Krishna Sinha (Cong.), (*Faizabad*); Avdesh Chandra Singh (Cong.), (*Farukhabad*); Sant Bux Singh (Cong.), (*Fatehpur*); Chatrapati Ambesh (Cong.), (*Firozabad—S.C.*); Pratap Singh Negi (Cong.), (*Garhwal*); Tula Ram (Cong.), (*Ghatampur—S.C.*); Sarjoo Pandey (C.P.I.), (*Ghazipur*); Jharkhande Rai (C.P.I.), (*Ghosi*); Anand Singh (Cong.), (*Gonda*); Narsinh Narain Pandey (Cong.), (*Gorakhpur*); Swami Brahmanand (Cong.), (*Hamirpur*); B. P. Maurya (Cong.), (*Hapur*); Kinder Lal (Cong.), (*Hardoi—S.C.*); Chandra Shailani (Cong.), (*Hathras—S.C.*); Choudhury Ram Sawak (Cong.), (*Jalaun—S.C.*); Rajdeo Singh (Cong.), (*Jaunpur*); Dr. Govind Das Richhariya (Cong.), (*Jhansi*).

Shafquat Jung (Cong.), (*Kairana*); Smt. Shakuntala Nayar (J.S.), (*Kaisarganj*); S. N. Mishra (Cong.), (*Kannauj*); S. M. Banerjee (C.P.I.), (*Kanpur*); M. D. S. Shakya (J.S.), (*Kasganj*); Krishna Chandra Pandey (Cong.), (*Khalilabad*); Balgovind Verma (Cong.), (*Kheri*); Hari Singh (Cong.), (*Khurja—S.C.*); Ram Dhan (Cong.), (*Lalganj—S.C.*); Smt. Sheila Kaul (Cong.), (*Lucknow*); Nageshwar Dwivedi (Cong.), (*Machhlishahr*); Shiban Lal Saksena (Ind.), (*Maharajganj*); Maharaj Singh (Cong.), (*Mainpuri*); Chakleshwar Singh (Cong.), (*Mathura*); Shah Nawaz Khan (Cong.), (*Meerut*); Aziz Imam (Cong.), (*Mirzapur*); Dr. Sankta Prasad (Cong.), (*Misrikh—S.C.*); Smt. Ganga Devi (Cong.), (*Mohanlalganj—S.C.*); Veerendra Agarwala (J.S.), (*Moradabad*); Vijay Pal Singh (C.P.I.), (*Muzaffarnagar*); K. C. Pant (Cong.), (*Nainital*); Genda Singh (Cong.), (*Padrauna*); Viswanath P. Singh (Cong.), (*Phulpur*); Mohan Swaroop (Cong.), (*Pilibhit*); Dinesh Singh (Cong.), (*Pratapgarh*).

Smt. Indira Gandhi (Cong.), (*Rae Bareli*); Zulfiqar Ali Khan (Cong.), (*Rampur*); B. N. Kureel (Cong.), (*Ramsanehighat—S.C.*); Ram Swarup (Cong.), (*Robertsganj—S.C.*); Sunder Lal (Cong.), (*Saharanpur—S.C.*); Shambhu Nath (Cong.), (*Saidpur—S.C.*); Tarkeshwar Pandey (Cong.), (*Salempur*); Dharamgaj (Singh (Cong.), (*Shahbad*); J. Prasad (Cong.), (*Shahjahanpur*); Jagdish Chandra Dixit (Cong.), (*Sitapur*); Kedar Nath Singh (Cong.), (*Sultanpur*); P. Painuli (Cong.), (*Tehri Garhwal*); Z. R. Ansari (Cong.), (*Unnao*); Raja Ram Shastri (Cong.), (*Varanasi*).

WEST BENGAL — 40 : Indrajit Gupta (C.P.I.), (*Alipore*); Manoranjan Hazra (C.P.M.), (*Arambagh*); Robin Sen (C.P.M.), (*Asansol*); Krishna Chandra Halder (C.P.M.), (*Ausgram—S.C.*); R. N. Barman (Cong.), (*Balurghat—S.C.*); Sankar Narayan Singh Deo (Cong.), (*Bankura*); Ranen Sen (C.P.I.), (*Barasat*); Mohd. Ismail (C.P.M.), (*Barrackpore*); A. K. M. Ishaque (Cong.), (*Basirhat*); Tridib Chaudhuri (R.S.P.), (*Berhampore*); Gadadhar Saha (C.P.M.), (*Birbhum—S.C.*); Dr. Sardish Roy (C.P.M.), (*Bolpur*); Somnath Chatterjee (C.P.M.), (*Burdwan*); Robin Sen (C.P.M.), (*Burdwan*); H. N. Mukherjee (C.P.I.), (*Calcutta—North-East*); Ashok Kumar Sen (Cong.), (*Calcutta—North-West*); Priya Ranjan Das Munsi (Cong.), (*Calcutta—South*); Samar Guha (S.P.), (*Contai*); B. K. Das Chowdhury (Cong.), (*Cooch-Behar—S.C.*).

Rattanlal Brahman (C.P.M.), (*Darjeeling*); Jyotirmoy Bosu (C.P.M.), (*Diamond Harbour*); Jagdish Bhattacharya (C.P.M.), (*Ghatal*); Bijoy Modak (C.P.M.), (*Hooghly*); Samar Mukherjee (C.P.M.), (*Howrah*); Tuna Oraon (Cong.), (*Jalpaiguri—S.T.*); Hazi Lutifal Haque (Cong.), (*Jangipur*); Sakti Kumar Sarkar (Cong.), (*Jaynagar—S.C.*); A. K. Kisku (Cong.), (*Jhargram—S.T.*); Saroj Mukherjee (C.P.M.), (*Katwa*); Prof. Renu Pada Das (C.P.M)., (*Krishnagar*); Dinesh Joarder (C.P.M.), (*Malda*); Madhurya Haldar (C.P.M.), (*Mathurapur—S.C.*); Subodh Hansda (Cong.), (*Midnapur*); Md. Khuda Buksh (Cong.), (*Murshidabad*); Smt. Bibha Ghosh Goswami (C.P.M.), (*Nabadwip—S.C.*); Vacant (*Purulia*); Smt. Maya Ray (Cong.), (*Raiganj*); Dinen Bhattacharya (C.P.M.), (*Serampore*); Satish Chandra Samanta (Cong.), (*Tamluk*); Syama Prasanna Bhattacharya (C.P.M.), (*Uluberia*); Ajit Kumar Saha (C.P.M.), (*Vishnupur—S.C.*).

ANDAMAN AND NICOBAR ISLANDS — 1 : K. R. Ganesh (Cong.).

ARUNACHAL PRADESH —1 : C. C. Gohain † (Cong.).

CHANDIGARH — 1 : Amarnath Vidyalankar (Cong.).

DADRA AND NAGAR HAVELI — 1 : Ramubhai Ravjibhai Patel (Cong.), (*S.T.*).

DELHI — 7 : Smt. Subhadra Joshi (Cong.), (*Chandani Chowk*); Vacant (*Delhi Sadar*); H. K. L. Bhagat (Cong.), (*East Delhi*); T. Sohan Lal (Cong.), (*Karol Bagh—S.C.*); Smt. Mukul Banerji (Cong.), (*New Delhi*); Ch. Dalip Singh (Cong.), (*Outer Delhi*); Shashi Bhushan (Cong.), (*South Delhi*).

GOA, DAMAN AND DIU — 2 : Purushottam Kakodkar (Cong.), (*Panaji*); Erasmo De Sequeira (U.G.), (*Marmagoa*).

LAKSHADWEEP — 1 : P. Mohamad Sayeed (Cong.), (*S.T.*).

MIZORAM — 1 : Sangliana (Cong.), (*S.T.*).

PONDICHERRY — 1 : A. Bala Pazhanur (ADMK).

ANGLO-INDIANS† — **2 :** Frank Anthony ; Smt. Marjorie Godfrey,

ESTIMATES COMMITTEE (1975-76) ; Chairman : R. K. Sinha. **Members :** N. R. Ahirwar, Kushak Bakula, Ishwar Chaudhry, Madhu Dandavate, A. C. Das, Tulsidas Dasappa, A. P. Dhusia, L. K. Dumada, Varkey George, Tarun Gogoi, Madhurayya Haldar, J. G. Kadam, M. Kathmuthu, Maharaj Singh, Y. P. Mandal, J. N. Mishra, Muhammed Khuda Bukhsh, Bala Pajanor, Sudhakar Pandey, Dhanshah Pradhan, Ram Prakash, Bhola Raut, R. G. Reddy, S. K. Shastri, S. B. Singh, R. K. Sinha, R. V. Swaminathan, K. P. Unnikrishnan, K. Veerah and Smt. B. Radhabai Anand Rao.

PUBLIC ACCOUNTS COMMITTEE (1975-76) : Chairman : H. N. Mukerjee ; **Members :** T. Balakrishniah, Chandulal Chandrakar, Chandrika Prasad, Darbara Singh, C. C. Gohain, Pampan Gowda, Raja Kulkarni, Shyam Sunder Mohapatra, H. N. Mukerjee, Priya Ranjan Das Munsi, Narendra Singh, Noorul Huda, Shibban Lal Saksena, N. K. Sanghi, Somchand Solanki, Mohammad Usman Arif, Smt. Pratibha Singh, V. B. Raju, Gulabrao Patil, T. K. Srinivasan, Dr. K. Mathew Kurian and Rabi Ray.

PUBLIC UNDERTAKINGS COMMITTEE (1975-76) : Chairman: Nawal Kishore Sharma; **Members:** Smt. Sheila Kaul, Natwarlal Patel, Vasant Sathe, C. K. Jaffer Sharief, Amarnath Vidyalankar, Harsh Deo Malaviya, Jagdish Prasad Mathur, Pandit Bhawani Prasad Tiwary, Dinen Bhattacharya, Bhogindra Jha, V. Mayavan, Surendra Mohanty, Damodar Pandey, Paokai Haokip, Ram Surat Prasad, K. Narayan Rao, Atal Bihari Vajpayee, Sriman Profulla Goswami, Bhola Prasad, Veerendra Patil and Sultan Singh.

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† Nominated by the President.

LEGISLATIVE ASSEMBLIES AND LEGISLATIVE COUNCILS

ANDHRA PRADESH LEGISLATIVE ASSEMBLY

Speaker : R. Dasaratha Rama Reddi ; *Dy. Speaker :* Syed Rahmat Ali.

No. of seats 288 including nominated Anglo-Indian.

An estimate of party position is given below :

Congress : 241 ; Communist Party of India : 8 ; A. P. Progressive Democrats : 7 ; Socialist Democratic Front : 6 ; Communist Party of India (Marxist) : 1 ; Progressive Front : 6 ; Peoples Democrats : 3 ; All India Majlis Ittehad-ul-Muslimeen : 2 ; Republican Party of India : 1 ; Independents : 11 ; Vacant : 2.

Scheduled Castes : 39 ; Scheduled Tribes 11.

Woman Members : 28.

P. Mahendranath (Cong.), (*Achampet-S.C.*); G. Venkanna (Cong.), (*Achanta–S.C.*) ; D. Prakasam (Cong.), (*Addanki*); Masood Ahmed (Cong.), (*Adilabad*) ; H. Satyanarayana (Cong.) , (*Adoni*) ; A. Punna Reddi (Cong.) , (*Alair*) ; T. Rajasekhara Reddy (Cong.), (*Alampur*); S. Venkata Subba Reddy (Ind.), (*Allagada*); M. S. Vishnu Prasad Rao (Cong.), (*Allavaram–S.C.*) ; R. Dasaradha Ram Reddi, (Cong.), (*Allur*) ; P. Rajaratna Rao (Cong.), (*Alur–S.C.*) ; K. Prabhakara Rao (Cong.), (*Amalapuram*) ; Som Bhupal, (Cong.), (*Amarchinta*) ; P. Venkata Ramana (Cong.), (*Anakapalli*) ; A. Venkata Reddi (Cong.), (*Anantapur*) ; V. Ramakrishna Chowdari (Cong.), (*Anaparthy*) ; C. Rajanarasimha (Cong.), (*Andole–S.C.*) ; T. Ranga Reddi (Cong.), (*Armoor*) ; K. Bheem Rao, (Cong.), (*Asifabad–S.T.*) ; Syed Rahmat Ali, (Cong.), (*Asifnagar*) ; K. Sreehari Naidu, (Cong.), (*Atmakur*) ; K. V. Narasimha Raju (Cong.), (*Attili*) ; M. V. Krishna Rao (Cong.), (*Avanigadda*).

B. Veera Reddi (Cong.), (*Badvel*) ; G. Rajaram (Cong.), (*Balkonda*) ; P. Lakshmana Rao (Cong.), (*Bandar*) ; M. Munaswami (Cong.), (*Bangaripalem–S.C.*) ; M. Sreenivasa Rao (Cong.), (*Banswada*) ; K. Prabhakara Rao (Cong.), (*Bapatla*) ; M. Ramachandraiah (Cong.), (*Bhadrachalam–S.T.*) ; Bh. Vaijayakumar Raju (Cong.), (*Bhimavaram*) ; R. D. S. Suryanarayana Raju (Cong.), (*Bhimunipatnam*) ; M. Narayana Reddi (Cong.), (*Bhodhan*) ; K. Appadu Dora (Cong.), (*Bhogapuram*) ; K. Lakshmana Bapuji (Cong.), (*Bhongir*) ; S. A. Devshah (Cong.), (*Boath–S.T.*) ; Ch. V. K. Krishna Rao (Cong.), (*Bobbili*) ; J. Damodar Rao (S.D.F.), (*Buggaram*) ; Komaram Ramaiah (Cong.), (*Burugampahad–S.T.*) ; K. Ramachandra Rao (Cong.), (*Burugapudi*) ; N. Ramulu (Cong.), (*Chalakurti*) ; Syed Hassan (AIMIM), (*Charminar*) ; R. Pyadapu Naidu (Cong.), (*Cheepurupalli*) ; N. Yethiraja Rao (Cong.), (*Chennur*) ; Dr. P. Katam Lingaiah (Cong.), (*Cheriyal–S.C.*) ; P. Kishan Rao (Cong.), (*Chevella*) ; P. Venkata Rao (Cong.), (*Cheyyeru*) ; B. Satyanarayana (Cong.), (*Chilakaluripet*) ; K. Rajamallu (Cong.), (*Chinnur–S.C.*) ; D. Koneswara Rao (Cong.), (*Chintalapudi*) ; I. Ramana Padalu (Cong.), (*Chintapalli–S.T.*) ; G. Kotaiah (Cong.), (*Chirala*) ; P. Srinivasula Naidu (Cong.), (*Chittoor*) ; V. Palavelli (Cong.), (*Chodavaram*) ; G Ranga Reddi (Cong.), (*Cuddapah*).

D. Rajagopal Reddi (Cong.), (*Darsi*) ; M. Rama Mohana Rao (Cong.), (*Dendulur*) ; B. Ram Sarma (C.P.I.), (*Davarkonda*) ; P. V. Chowdary (Cong.), (*Dharmavaram*) ; M. Seshanna (Cong.), (*Dhone*) ; S. Ramachandra Reddi (Cong.), (*Dommat*) ; R. Surendra Reddy (Cong.), (*Dornakal*) ; B. Gopala Reddi (Cong.), (*Duggirala*) ; K. K. V. Satyanarayana Raju (Cong.), (*Elamanchili*) ; A. Sree Ramulu (P.D.), (*Eluru*) ; B. Hariyappadu (APPD), (*Etcherla*) ; P. Pulla Reddi (Cong.), (*Gadwal*) ; Smt. T. Shantha Bai (Cong.), (*Gagan Mahal*) ; P. Sambasiva Raju (Cong.), (*Gajapathinagaram*) ; G. Saidaiah (Cong.), (*Gajwal–S.C.*) ; Smt. T. E. S. Ananda Bai (Cong.). (*Gannavaram*) ; T. Hayagrivachari (Cong.), (*Ghanpur*) ; P. Ranga Reddi (Cong.), (*Giddalur*) ; G. Krishnam Naidu (Cong.), (*Gompa*) ; D. Venkat Reddy (Ind.), (*Gooty*) ; S. Venkata Rao (Cong.), (*Gopalapuram–S.C.*) ; P. Ravindra Reddi (S.D.F.), (*Gorantla*) ; K. Satyanarayana Rao (Cong.), (*Gudivada*) ; N. Sreenivasulu Reddi (S.D.F.), (*Gudur*) ; Smt. Vijaya Ramanujam (Cong.), (*Guntur–I*) ; N. Venkata Ratnam (P.D.), (*Guntur–II*) ; M. Nagi Reddi (C.P.I.), (*Gurajala*) ; K. Appala Narasimham Bhukta (Cong.), (*Harichandrapuram*) ; R. Narasima Ramaiah (Cong.), (*Hasanparthy–S.C.*) ; G. Somasekhar (Cong.), (*Hindupur*) ; V. Rajeswara Rao (Cong.), (*Huzurabad*) ; K. Jithender Reddi (Cong.), (*Huzurnagar*).

N. Anantha Reddi (Cong.), (*Ibrahimpatnam*) ; V. Rangababu (Cong.), (*Ichapuram*) ; B. Yella Reddi (C.P.I.), (*Indurthi*) ; N. Narasappa (Cong.), (*Jadcherla*) ; P. Padmanabham (Cong.), (*Jaggampeta*) ; Mrs. V. Srirajyalakshamma (Cong.), (*Jaggayapeta*); V. Jagapathi Rao (Cong.),(*Jagtial*); A. Suryanarayana Raju (Cong), (*Jami*) ; T. Narasimha Reddi (Ind.), (*Jammalamadugu*) ; K. Narayana (Cong.), (*Jangaon*) ; S. Vithal Reddi (Ind.), (*Jukkal*) ; B. Subba Rao (Cong.), (*Kadiam*–S.C.); C. Narayana Reddi (Cong.), (*Kadiri*) ; Smt. K. Mangathayaramma (Cong.), (*Kaikalur*) ; C. V. K. Rao (Ind.), (*Kakinada*) ; A. Dasarathasami Reddy (Cong.), (*Kalahasti*) ; S. Jaipal Reddi (Cong.), (*Kalvakurthy*) ; Smt. M. Lakshmi Devi (Cong.), (*Kalyandurg–S.C.*) ; P. Janardan Reddi (P.F.), (*Kamalpur*) ; R. Seetharamaiah (Cong.), (*Kamalapuram*) ; Y.

Satyanarayana (Cong.), (*Kamareddi*); M. Audinarayana Reddi (Ind.), (*Kandukur*); S. Papi Reddi (P.D.), (*Kanigiri*); A. Bhaskara Rao (Cong.), (*Kankipadu*); J. Chokka Rao (Cong.), (*Karimnagar*); G. Kondappa Naidu (Ind.), (*Kavali*); N. Krishna Rao (Cong.), (*Khairathabad*); Mohd. Rajab Ali (C.P.I.), (*Khammam*); N. Venkataiah (Cong.), (*Kodangal*); D. Muniswami (Cong.), (*Kodumur–S.C.*); G. Sree Ramulu (Cong.), (*Koduru–S.C.*); M. V. Subba Reddi (Cong.), (*Koilkuntla*); K. Ranga Das (P.F.), (*Kollapur*); D. Sankaraiah (C.P.I.), (*Kondapi*); Smt. D. Bhanutilakam (Cong.), (*Kothapeta*); V. Narasimha Rao (APPD), (*Kothuru–S.C.*); P. Ramachandra Reddi (Cong.), (*Kovur*); A. Hanumantha Rao (Cong.), (*Kovvur*); A. Bhagavantha Rao (Cong.), (*Kuchinapudi*); D. Venketesam (S.D.F.), (*Kuppam*); P. Rahiman Khan (Cong.), (*Kurnool*); R. Rajagopal Reddi (Cong.), (*Lakkireddipalli*); K. V. Kishan Rao (Cong.), (*Luxettipet*).

J. Nagi Reddi (Cong.), (*Macherla*); M. Yellappa (Cong.), (*Madakasira–S.C.*); A Narasinga Rao (Cong.), (*Madanapalli*); Smt. D. Venkata Ravamma (Cong.), (*Madhira*); Smt. B. Kalavati (Cong.), (*Madugula*); N. Lakshmi Narayan (Cong.), (*Maharajgunj*); Mohd. Ibrahim Ali Ansari (Cong.), (*Mahboobnagar*); J. Janardan Reddy (Cong.), (*Mahbubabad*); K. Ramachandra Rao (Cong.), (*Mukthal*); Smt. B. Sarojini Pulla Reddy (Cong.), (*Malakpet*); P. Pamideswara Rao (Cong.), (*Malleswaram*); V. Sreekrishna (C.P.I.), (*Mangalagiri*); P. V. Narasimha Rao (Cong.), (*Manthani*); M. Nasar Baig (Cong.), (*Markapur*); K. Ramachandra Rao (Cong.), (*Medak*); Smt. Sumithra Devi (Cong.), (*Medchal–S.C.*); Ch. Satyanarayana Rao (Cong.), (*Metpalli*); T. China Krishna Reddi (Cong.), (*Mirialguda*); Gaddana (Cong.), (*Mudhole*); Kaza Ramanatham (Cong.), (*Mudinepalli*); Santhosh Chakravarthy (Cong.), (*Mulug*); P. Goverdhan Reddi (Cong.), (*Mungode*); T. Anjaiah (Cong.), (*Musheerabad*)–*S.C.*); S. P. Nagi Reddy (Cong.), (*Mydukur*); Ch. Venkata Rao (Cong.), (*Mydavaram*).

V. N. Goud (Cong.), (*Nagar Kurnool*); Smt. G. Mahalakshmi (Cong.), (*Nagaram–S.C.*); K. Gopal Naidu (Cong.), (*Nagari*); P. Sree Rama Murthy (APPD), (*Nagarikatakam*); V. C. Chudamani Dev (APPD), (*Nagur–S.T.*); Kumari M. Kamalamma (Cong.), (*Nakrekal*); Ch. Sreenivasa Rao (Cong.), (*Nalgonda*); A. Veerappa (Cong.), (*Nallamada*); V. Nageswara Rao (Cong.), (*Nandigama*); M. Subba Reddi (Cong.), (*Nandikotkur*); B. Venkata Reddi (S.D.F.), (*Nandyal*); M. Omkar (C.P.I.-M.), (*Narasampet*); Smt. B. Sarojanamma (Cong.), (*Narasannapet*); C. Jagannadha Rao (Cong.), (*Narasapur*); P. Seshavathram (Cong.), (*Narasapur*); D. Krishna Reddy (Cong.), (*Narasaraopet*); R. S. Suryanarayana Raju (Cong.), (*Narasipatnam*); M. Venkata Reddi (P.F.), (*Narayankhed*); A. Venkata Reddi (Cong.), (*Nellore*); G. Bhupathy (Cong.), (*Neralla–S.C.*); K. Someswara Rao (Cong.), (*Nidumolu–S.C.*); P. Narasa Reddi (Cong.), (*Nirmal*); Dr. V. Chakradhara Rao (Cong.), (*Naizamabad*); Smt. Premlata Devi (Cong.), (*Nusthulapur–S.C.*); M. R. Apparo (Cong.), (*Nuzvid*); Smt. S. Jeevaratnam Naidu (Cong.), (*Ongole*).

T. Chitti Naidu (Cong.), (*Paderu–S.T.*); C. V. H. Rama Jogaiah (Cong.), (*Palacole*); K. Shanthaiah (Cong.), (*Palair–S.C.*); K. Narasaiah (Cong.), (*Palakonda–S.C.*); M. M. Ratnam (Cong.), (*Palamaner*); Ch. Kasaiah (Cong.), (*Palwancha*); Smt. G. Kamala Devi (Cong.), (*Pamarru*); E. Ayyapu Reddy (Cong.), (*Panyam*); P. Dharma Reddy (Cong.), (*Parkal*); Bh. Sree Rama Murthy (Cong.), (*Paravada*); M. Narayana Rao (Ind.), (*Parchur*); K. Ram Reddi (Cong.), (*Pargi*); Ch. Parasuram Naidu (APPD), (*Parvatipuram*); Smt. S. Pagadalu (Cong.), (*Pathapatnam–S.C.*); K. B. Narasappa (Cong.), (*Pattikonda*); G. Suryanarayana (Cong.), (*Payakaraopet–S.C.*); T. Lakshmi Naidu (APPD), (*Pedamanapuram*); Dr. (Mrs.) Fathimunnisa Begum (Cong.), (*Peddakurapadu*); J. Malla Reddi (Cong.), (*Peddapalli*); K. Krishna Murthy (Cong.), (*Peddapuram*); S. Narayana Reddi (Cong.), (*Penukonda*); V. Satyanarayana (C.P.I.), (*Penukonda*); Mogal Saifulla Baig (Cong.), (*Pilleru*); Y. Suryanarayana Murthy (Cong.), (*Pithapuram*); K. Narayanaswami (Cong.), (*Podili*); K. Ramulu (Cong.), (*Polavaram–S.T.*); L. Lakshmana Das (Cong.), (*Ponduru*); D. Ranga Rao (Cong.), (*Ponnur*); V. Jogi Raju (Cong.), (*Prattipadu*); C. Peter Paul (Cong.), (*Prattipadu*); K. Subba Rao (Cong.), (*Prodattur*); P. Basi Reddi (Cong.), (*Pulivendla*); Smt. Rani Sundarammanni (Cong.), (*Punganur*); E. V. Gopal Raju (Cong.), (*Puttur*).

Vacant (*Rajahmundry*); Smt. K. Prabhavathamma (Cong.), (*Rajampet*); D. Satyanarayana Reddi (Cong.), (*Ramachandrapuram*); P. Rajaratnam (Cong.), (*Ramannapet—S.C.*); M. Kondala Reddi (P.F.), (*Ramayanpet*); N. Venkata Ratnam Naidu (Ind.), (*Rapur*); Habibullah Mahal (Cong.), (*Rayachoti*); B. Venkatanarayana (Cong.), (*Rayadurg*); B. Gopalakrishna Rao (Cong.), (*Razole*); Y. Channaiah (Cong.), (*Repalle*); J. Muthyalu (Cong.), (*Salur–S.T.*); Ch. Venkata Ratnam (Cong.), (*Sampara*); P. Ramachandra Reddi (Cong.), (*Sangareddi*); A. Kotaiah (Cong.), (*Santhanuthalapadu—S.C.*); M. Nana Das (Cong.), (*Sarvepalli–S.C.*); G. Veeranjaneya Sarma (Cong.), (*Sattenapalli*); C. Dass (Cong.), (*Satyavedu—S.C.*); L. Narayana (Cong.), (*Secunderabad*); Smt. V. Mankamma (Cong.), (*Secunderabad Cantt.–S.C.*); N. V. Jagannadham (Cong.), (*Shadnagar–S.C.*); A. Madan Mohan (Cong.), (*Siddipet*); T. Ranga Reddi (S.D.F.), (*Singanamala*); J. Narasing Rao (Cong.), (*Sirsilla*); K. V. Kesavulu (Cong.), (*Sirpur*); Shafi-ur-Rahman (P.F.), (*Sitaramabagh*); M. Thulasi Das (Cong.), (*Sompet*); C. Lakshmi Narayana (APPD), (*Srikakulam*); K. V. R. S. Padmanabha Raju (Cong.), (*Srungavarpukota*); P. Venkata Subbaiah (Cong.), (*Sullurpet–S.C.*); E. Gopaiah (Cong.), (*Suryapet–S.C.*).

E. Anjaneyulu (Cong.), (*Tadepalligudem*); G. V. Rathaiah (Cong.), (*Tadikonda*); C. Subbarayudu (Cong.), (*Tadpatri*); S. Sathi Raju (Cong.), (*Tallarevu*); G. Satyanarayana Murthy (Cong.), (*Tanuku*); S. Lokanadham Naidu (Cong.), (*Tekkali*); Smt. D. Indira (Ind.), (*Tenali*); Smt. T. N. Anasuyamma (Cong.), (*Thamballapalli*); G. Venkata Narasaiah (S.D.F.), (*Thungathurthi*); Vijaya Sikhamani (Cong.), (*Tirupathi*); Kota Ramaiah (Cong.), (*Tiruvur–S.C.*); Smt. N. Vijayalakshmi (Cong.), (*Tuni*); P. Chenchuramaiah (Cong.), (*Udayagiri*); D. Peraiah (Cong.), (*Undi*); Ch. S. R. Murthi Raju (Cong.), (*Ungutur*); B. Basappa (Cong.), (*Uravakonda*).

N. Amaranatha Reddy (Cong.), (*Vayalpad*); J. Vengala Rao (Cong.), (*Vemsoor*); Y. Venkata Rao (Ind.), (*Vemur*); O. Venkata Subbaiah (Cong.), (*Venkatagiri–S.C.*); V. Munswamappa (Cong.), (*Vepanjeri–S.C.*); D. Rama Rao (Cong.), (*Vijayawada—East*); Asif Pasha (Cong.), (*Vijayawada—West*); V. B. Tirumalaiah (P.F.), (*Vikarabad–S.C.*); Smt. B. H. Jayaprada (Cong.), (*Vinukonda*); M. R. Deen (Cong.), (*Visakhapatnam I*); P. Sanyasi Rao (C.P.I.), (*Visakhapatnam II*); A. Appana Dora (Cong.), (*Vizianagaram*); Smt. P. Rukminamma (Cong.), (*Vunukur*); D. K. Ranga Rao (Ind.), (*Vuyyur*); Ayyappa (Cong.), (*Wanaparthy*); P. Uma Reddi (Cong.), (*Warangal*); T. Purushotham Rao (Cong.), (*Wardhannapet*); Sultan S. Owaisi (AIMIM), (*Yakutpura*); V. Subba Rao (Cong.), (*Yellandu*); Smt. J. Eshwari Bai (R.P.I.), (*Yellareddy–S.C.*); Kumari T. Ratnabai (Cong.), (*Yellawaram–S.T.*); P. O. Satyanarayana Raju (Cong.), (*Yemmiganur*); K. Obul Reddi (Cong.), (*Yerragondipalem*); M Baga Reddi (Cong.), (*Zaheerabad*); C. E. Morris (Nominated Anglo-Indian).

ANDHRA PRADESH LEGISLATIVE COUNCIL

Chairman : Nivarthi Venkatasubbaiah ; *Deputy Chairman :* Mukkassir Shah Syed ; *Secretary :* G. Ramachandra Naidu.

Strength : 90; An estimate of Party position in the Council is as follows : Congress — 68 ; Bharatiya Jan Sangh — 6 ; Communist Party of India — 4 ; Communist Marxist — 1 ; Progressive Democratic Front — 8 ; Independants — 4 ; No. of women members — 7.

Legislative Assembly (31)

Smt. V. Kamala Kumari (Cong.) ; B. Gopala Krishnaiah (Cong.) ; T. Govind Singh (Cong.) ; A. Chithambara Reddy (Cong.) ; Y. Mahanandi Reddy (Cong.) ; K. L. Mahendra (C.P.I.) ; P. Rajagopal Naidu (Cong.) ; Smt. J. M. Rajamani Devi (Cong.) ; T. Rama Murthy (Cong.) ; S. Sidda Reddy (Cong.) ; Ch. Devananda Rao (Cong.) ; P. Venkata Rao (Cong.) ; T. Jiyyardas (Cong.) ; Venkata Narasimha Chari (Cong.) ; M. Shamsheer Baig (Cong.) ; Smt. Y. Savitri Devi (Cong.) ; S. Madhusudana Reddy (Cong.) ; K. Lakshminarayana Yadav (Cong.) ; Y. C. Thimma Reddy (Cong.) ; Y. V. Krishna Rao (C.P.I.) ; G. Venkateswarlu (Cong.) ; Veeramachaneni Venkata Narayana (Cong.) ; Kammili Appa Rao (Cong.) ; Vasireddy Krishnamurthy Naidu (Cong.) ; Mir Akbar Ali Nasiri (Cong.) ; Nivarthi Venkatasubbaiah (Cong.) ; Smt. T. N. Sadalakshmi (Cong.) ; B. Ram Dev (Cong.) ; Adinarayana Reddy (Cong.) ; K. Rosaiah (Cong.) ; Kondru Subba Rao (C.P.I.).

Local Authorities (31)

Syed Mukkassir Shah (Cong.), (*Adilabad*) ; I. Obayya (Cong.). (*Anantapur*); P. Gurava Reddy (Cong.), (*Chittoor*); N. P. Veeraraghavulu (Cong.), (*Chittoor*) ; A. Chengal Reddy (Cong.), (*Cuddapah*) ; M. V. S. Subba Raju (Ind.), (*Godavari-East*) ; R. Tirupathi Rao (Cong.), (*Godavari-East*) ; Nekkanti Venkata Janardhana Rao (Cong.), (*Godavari-West*) ; Yerra Narayanaswamy (Cong.), (*Godavari-West*) ; V. Nageswara Rao (Cong.), (*Guntur*) ; Kanaparti Nagaiah (C.P.I.), (*Guntur*) ; K. Prabhakara Reddy (Cong.), (*Hyderabad*) ; S. Venkat Ram Reddy (Cong.), (*Hyderabad*) ; Engati Gopal Rao (Cong.), (*Karimanagar*) ; T. Venkatappaiah (Cong.), (*Khammam*) ; Ghanta Krishnamurthy (Cong.), (*Krishna*) ; K. Suryaprakasa Rao (Cong.), (*Krishna*) ; K. E. Madanna (Cong.), (*Kurnool*) ; B. Seshasayanna Reddy (Ind.), (*Kurnool*) ; M. Ramdev Reddy (Cong.), (*Mahboobnagar*) ; C. Narsi Reddy (Cong.), (*Mahboobnagar*) ; S. Laxman Reddy (Cong.), (*Medak*) ; V. Purushotham Reddy (Cong.), (*Nalgonda*) ; D. Ramagopala Reddy (Cong.), (*Nellore*) ; A. V. Narayana Reddy (Ind.), (*Nizamabad*) ; G. Ramachandra Reddy (Cong.), (*Prakasham*) ; Gorle Sreeramulu Naidu (Cong.), (*Srikakulam*) ; V. Gopalakrishna Ranga Rao (Cong.), (*Srikakulam*) ; Pusapali L. Narasimha Raju (Cong.), (*Visakhapatnam*) ; Ruthala Latcha Patrudu (Cong.), (*Visakhapatnam*) ; Vedavalli Venkat Reddy (Cong.), (*Warangal*).

Graduates (8)

T. Bullaiah (Ind.), (*Circars Central*) ; P. V. Chalapathi Rao (J.S.), (*Circars North*) ; J. Yegnanarayana (J.S.), (*Circars South*) ; V. Rama Rao (J.S.), (*Hyderabad*) ; T. Panchajanyam (Cong.), (*Hyderabad*) ; Y. C. Ranga Reddy (J.S.), (*Rayalaseema-East*) ; D. Suryaprakasha Reddy (J.S.), (*Rayalaseema-West*) ; L. S. Raju (J.S.), (*Telangana*).

Teacher's (8)

D. Sivarama Raju (P.D.F.), (*Circars Central*) ; Marupu Bala Krishnamma (P.D.F.), (*Circars North*) ; M. J. Manikya Rao (P.D.F.), (*Guntur*) ; K. Koteswara Rao (P.D.F.), (*Krishna*) ; S. Ramakrishnaiah (P.D.F.), (*Rayalaseema-East*) ; P. Bhujanga Rao (P.D.F.), (*Rayalaceema-West*) ; P. Ramabrahmam (P.D.F.) (*Telengana-East*) ; V P. Raghavachari (P.D.F.), (*Telangana-West*).

Nominated (12)

Hafiz Abu Yusuf (Cong.) ; Akkala Kotaiah (Cong.) ; Koppala Venkateswara Rao (Cong.) ; M. A. Reddy (Cong.) ; Smt. Konda Parvati Devi (Cong.) ; Smt. D. Krishnaveni Sanjeevayya (Cong.) ; Vanamamalai Varadacharya (Cong.) ; Nerella Venu Madhav (Cong.) ; Roda Mistry (Cong.) ; Abdul Rahman Khan (Cong.), Pragada Kotaiah (Cong.), Amar Singh Rathod (Cong.).

ASSAM LEGISLATIVE ASSEMBLY

Speaker : Ramesh Chandra Barooah.

Dy. Speaker : Golak Rajbanshi.

Seats : 114. *Electorate :* 6,245,942 ; *Votes polled :* 3,849,853. An estimate of party position is given below : Cong. 95 ; Communist Party 3 ; Socialist Party 4 ; Swatantra 1 ; R. C.P.I. 1 ; P.D.P. ; P.T.C. 1 ; Independent 6 ; Vacant : Nil ; Women Members : 8

Ayodhya Ram Das (Cong.), (*Abhayapuri–SC*) ; Puspadhar Chaliha (Cong.), (*Amguri*) ; A. Abdul Jalil Choudhury (Cong.), (*Badarpur*) ; Jalaluddin (Cong.), (*Baghbar*) ; Dhani Ram Rongpi (Cong.), (*Baithalangso*) ; Golok Rajbanshi (Cong.), (*Balipara*) ; Surendranath Das (Cong.), (*Barama–ST*) ; Kehoram Hazarika (CPI), (*Barhampur*); Ghanakanta Boro (R.C.P.I.), (*Bhabanipur*) ; Premadhar Bora (Ind.), (*Bihpuria*) ; Golak Chandra Patgiri (Cong.), (*Bijni*) ; Giasuddin Ahmed (Ind.), (*Bilasipara*) ; Koshewar Bora (Ind.), (*Biswanath*) ; Upendra Nath Sanatan (Cong.), (*Bogdung*) ; Sai Sai Terrang (Cong.), (*Bokajan*) ; Tulsi Das (Cong.), (*Bokakhat–ST*) ; Jagadish Das (Cong.), (*Bokani*) ; Prabin Kumar Choudhury (Cong.), (*Boko*) ; Dhruba Narayan Barua (Cong.), (*Bongaigaon*) ; Gaurishankar Bhattacharjee (Ind.), (*Borbhag*) ; Dr. Lutfur Rahman (Cong.), (*Borkhola*) ; Dr. Surendranath Das (Cong.), (*Borpetra*).

Dulal Chandra Baruah (Ind.), (*Charaibahi*) ; Mrs. Satyabati Goswami (Cong.), (*Chhaygaon*) ; Abdul Hannan Choudhury (Cong.), (*Chenga*) ; Hashimuddin Ahmed (Cong.), (*Dalgaon*) ; Nagendra Baruah (SP), (*Dergaon*) ; Lakshyanath Doley (Cong.), (*Dhakuakhana–ST*) ; Hiranya Bora (Cong.), (*Dhekiajuli*) ; Ramesh Mohan Kowli (Ind.), (*Dhemaji*) ; Abdul Husain Mir (Cong.), (*Dhing*) ; Digendra Chandra Purkayastha (Cong.), (*Dholai*) ; Muhammad Umaruddin (Cong.), (*Dhubri*) ; Ramesh Chandra Barua (Cong.), (*Dibrugarh*) ; Chandra Bahadur Chetri (Cong.), (*Digboi*) ; Malia Tanti (Cong.), (*Doom-Dooma*) ; Smt. Anandibala Rava (Cong.), (*Dudhnai—S.T.*) ; Atul Chandra Saikia (Cong.), (*Gauhati-East*) ; Biren Ram Phukan (Cong.), (*Gauhati-West*) ; Syed-Ahmed Ali (Cong.), (*Gauripur*) ; Bala Bhadra Das (Cong.), (*Goalpara-East*) ; Samsul Haque (Cong.), (*Goalpara-West*) ; Ram Chandra Sarma (Ind.), (*Gohpur*) ; Soneswar Bora (SP), (*Golaghat*) ; Kabir Roy Pradhani (Ind.), (*Golakganj*) ; Mathias Tudu (Cong.), (*Gossaigaon*).

S. C. Daolagupu (*Haflong–S.T.*) ; Abdul Rahman Choudhury (Cong.), (*Hailakandi*) ; Mrs. Renuka Debi Barkataki (Ind.), (*Hajo*) ; Idris Ali Fakir (Cong.), (*Hojai*) ; C. S. Terron (Cong.), (*Howraghat*) ; Smt. Rebati Das (Cong.), (*Jalukbari*) ; Debendra Nath Bora (Cong.), (*Jamunamukh*) ; Ataur Rahman (Cong.), (*Jania*) ; Bijoy Krishna

Handique (Cong.), (*Jorhat*); Khirode Chandra Saikia (Cong.), (*Joypur*); Lakshmi Kanta Saikia (Cong.), (*Kalaigaon*); Golap Baruah (Cong.), (*Kaliabor*); Girindra Chandra Choudhury (Cong.), (*Kamalpur*); Abdul Muktadir Choudhury (Cong.), (*Karimganj-North*); Sudarshan Das (Cong.), (*Karimganj-South-SC*); Abdul Hamid Majumdar (Cong.), (*Katigorah*); Santosh Kumar Roy (Cong.), (*Katlicherra*); Sarat Chandra Sinha (Cong.), (*Kokrajhar-East*); Charan Narzari (PTC), (*Kokrajhar-West*).

Abdul Kasem (Cong.), (*Lahorighat*); Dipok Moormoo (Cong.), (*Lahoal*); Subhankar Singha (Cong.), (*Lakhipur*); Gobinda Chandra Bora (Cong.), (*Lakhimpur-North*); Santi Ranjan Dasgupta (Cong.), (*Lumding*); Khagen Gogoi (Cong.), (*Mahmora*); Mal Chandra Pegu (Cong.), (*Majuli -ST*); Sayeda Anowara Taimur (Cong.), (*Mangaldoi*); Nurul Islam (Cong.), (*Mankachar*); Gajen Tanti (Cong.), (*Mariani*); Bijoy Chandra Sharma (Cong.), (*Mishamari*); Tarun Chandra Chutia (Cong.), (*Moran*); Pitsing Konwar (Ind.), (*Morigaon*); Badan Chandra Talukdar (SP), (*Nalbari-East*); Dr. Bhumidhar Barman (Cong.), (*Nalbari-West*); Lilakanta Das (Cong.), (*Naoboicha–SC*); Hiteswar Saikia (Cong.), (*Nazira*); Lilakanta Bora (Cong.), (*Nowgong*); Harendra Nath Talukdar (Cong.), (*Palasbari*); Ramesh Saharia (Cong.), (*Panery*); Dr. Krishna Kanta Lahkar (Cong.), (*Patacharkuchi*); Bishwanath Upadhyaya (Cong.), (*Patharkandi*).

Gunendra Nath Pandit (Cong.), (*Raha*); Upendra Das (Cong.), (*Rangamati-SC*); Manabendra Sharma (Cong.), (*Rangiya*); Suranjan Nandy (Cong.), (*Ratabari*); Muhammad Idris (Cong.), (*Rupohighat*); Mrs. Tarulata Bora (Cong.), (*Saikhowa*); Bajlul Basit (Cong.), (*Salmara South*); Bishnu Prasad (Cong.), (*Samuguri*); Kandarpa Das (Cong.), (*Sarukhetri–SC*); Chatra Gopal Karmakar (Cong.), (*Sarupathar*); Promode Gogoi (CPI), (*Sibsagar*); Uttam Chandra Brahma (Cong.), (*Sidli–ST*); Mohitosh Purkayastha (Cong.), (*Silchar*); Nurul Haque Choudhury (Cong.), (*Sonai*); Janakinath Handique (Ind.), (*Sonari*); Smt. Pranita Talukdar (Cong.), (*Sorbhog*); Smt. Swarna Prabha Mahanta (Cong.), (*Sootea*); Ambarish Chandra Lahiri (Cong.), (*Tamulpur*); Indreswar Khaund (Cong.), (*Tengakhat*); Dulal Chandra Khound (CPI), (*Teok*); Dr. Rabindrakumar Goswami (Cong.), (*Tezpur*); Naradkumar (Cong.), (*Thawra*); Rajendra Nath Phukan (Cong.), (*Tingkhong*); Paramananda Gogoi (Cong.), (*Tinsukia*); Joy Chandra Bora (Cong.), (*Titabar*); Bahadur Basumatari (Cong.), (*Udalguri–ST*); Jagannath Sinha (Cong.), (*Udhorband*).

BIHAR VIDHAN SABHA

Speaker: Harinatha Misra.

Dy. Speaker: Shakoor Ahmed.

Party-wise position of the Assembly is as follows:

Seats: 319. Congress: 178; Communist Party: 35; Cong. (O): 19; Jan Sangh: 1; Samyukta Samajwadi Dal: 8; Socialist Vidhayak Dal: 2; Swatantra: 1; Hul Jharkhand: 2; Hindustani Shoshit Dal: 2; Progressive Hul Jharkhand: 1; Jharkhand (N.E. Horo) 1; Akhil Bhartiya Jharkhand: 3; Nominated: 1; Independents: 23; Vacant: 41. Women Members: 10.

Ram Prit Rai (Cong.), (*Adapur*); Vidyakar Kavi (Cong.), (*Alamnagar*); Mishri Sada (Cong.), (*Allouli–SC*); Vacant (*Amarpur*); Hasibur Rahman (Cong.), (*Amour*); Azam (Ind.), (*Araria*); Braj Kishore Narain Singh (Cong.—O), (*Barauli*); Mrs. Sumitra Devi (Cong.), (*Arrah*); Rang Bahadur Singh (Ind.), (*Arwal*); Ayodhya Prasad (Ind.), (*Ashthawan*); Maheswari Prasad Singh (Cong.—O) (*Atr*); Brij Mohan Singh (Cong.—O), (*Aurangabad*); Vacant (*Aura*); Mohammed Ayub (Cong.), (*Azamnagar*).

Ramdeo Rai (Cong.), (*Bachhwara*); Narsingh Baitha (Cong.), (*Bagaha–SC*); Imamul Haikhan (Cong.), (*Baghmara*); Vacant (*Bagadar*); Nizamuddin (Cong.), (*Bahadurganj*); Shibu Ranjan Khan (Cong.), (*Baharagora*); Tej Narain Yadav (Swa.), (*Baheri*); Vacant (*Baikunthpur*); Bhola Prasad Singh (S.S.D.), (*Bakhtiapur*); Ram Chandra Paswan (C.P.I.), (*Bakhri—SC*); Vacant (*Balia*); Smt. Uma Pandey (Cong.), (*Baniarpur*); Thakur Kamakhya Pd. Singh (Cong.) (*Banka*); Rasiklal Rishideo (Cong.), (*Banmankhi—SC*); Mohan Ram (Cong.), (*Barachatti—SC*); Mohammed Shakoor (Cong.), (*Barari*); Chandra Sekhar Singh (C.P.I.), (*Barauni*); Rajo Singh (Cong.), (*Barbigha*); Thakur Dwaraknath Singh (Cong.), (*Barh*); Masih Soren (Ind.), (*Barhair—ST*); Ram Vilash Singh (Cong.—O), (*Barhara*); Abdul Jalil (C.P.I.), (*Barharia*); Rameshwar Prasad Mahta (Cong.), (*Barhi*); Vacant (*Barhiya*); Vacant (*Bariyarpur*); Mahesh Ram (Ind.), (*Barkagaon*); Mrs. Beaula Doza (Cong.), (*Barsod*); Yamuna Singh (S.S.D.), (*Baruraj*); Faturi Singh (Cong.—O), (*Bathnaha*); Bhola Singh (C.P.I.), (*Beguwarai*); Mrs. Shakuntala Devi (Cong.), (*Belhar*); Jitendra Prasad Singh (Cong.—O), (*Belaganj*); Ram Surat Singh (Cong.), (*Belsand*); Tej Narain Jha (C.P.I.), (*Benipatti*); Vindeshwari Dubey (Cong.), (*Bermo*); Karam Chand Bhagar (Cong.), (*Bero—ST*); Krishna Mohan Pandey (Cong.), (*Bettiah*); Shyam Narain Pandey (Cong.), (*Bhabhua*); Vacant (*Bhagalpur*); Shankar Pratap Deo (Cong.), (*Bhavnathpur*); Raj Mangal Mishra (Cong.), (*Bhore*); Bandhu Mahto (Cong.), (*Bibhutipur*); Vacant (*Bihar*); Prabhu Narain Rai (C.P.I.), (*Bihpur*); Vacant (*Bikram*); Sant Prasad Singh (C.P.I.), (*Bikramganj*); Anirudh Jha (Ind.), (*Biraul*); Aziz Nuruddin (Cong.), (*Bisfi*); Ramdeni Ram (Cong.), (*Bishrampur—SC*); Ramai Ram (Ind.), (*Bochaha—SC*); Balikram (C.P.I.), (*Bodhgaya—SC*); Set Hembrom (Hul Jharkhand), (*Boriyo—ST*); Rishikesh (Tiwary (Cong.), (*Brahampur*); Jagnarain Trivedi (Cong.), (*Buxar*).

Bagun Sumbrui (A.B.Jd.), (*Chibasa—ST*); Vacant (*Chainpur*); Jay Ram Oraoan (A.B.Jd.), (*Chainpur—ST*); Chandra Shekhar Singh (Cong.), (*Chakai*); Theodore Bodra (Cong.), (*Chakradharpur—ST*); Durga Charan Das (Cong.), (*Chandan Kiyari—SC*); Ram Raj Pd. Singh (Cong.), (*Chandi*); Umesh Prasad Verma (Cong.), (*Chanpatia*); Janak Yadav (Cong.), (*Chapra*); Kumbh Narain Sarda (Cong.), (*Chhatapur—ST*); Tapeshwar Deo (Cong.), (*Chatra*); Nand Kishore Singh (Cong.), (*Chauparan*); Ghan Shyam Singh (Cong.), (*Chautham*); Ram Bachan Paswan (H.S.D.), (*Chenari—SC*); Sadanand Singh (Cong.), (*Colgong*); Jagdish Prasad Choudhury (Cong.), (*Dalsingh Sarai*); Vacant (*Daltonganj*); Irishna Pratap Singh (Ind.), (*Darauli*); Vacant (*Darbhanga*); Vacant (*Daudnagar*); Khalid Anwar Ansari (Cong.), (*Dehri*); Baidya Nath Das (Cong.), (*Deoghar—SC*); Mohd. Hafiz Idris Ansari (Cong.), (*Dhaka*); Jai Narayan Mehta (Cong.), (*Dhamdaka*); Hardeo Prasad (Cong.), (*Dhanaha*); Chinmoy Mukherjee (C.P.I.), (*Dhanbad*); Punit Rai (Cong.), (*Dhanbad*); Naresh Das (C.P.I.), (*Dhoraiya—SC*); Budh Deo Singh (Cong.), (*Danapur*); Ram Narain Sah (Cong.—O), (*Dinara*); Paika Murmu (Cong.), (*Dumka—ST*); Vacant (*Dumraon*); Murli Bhagat (Cong.), (*Dumri*).

Ram Swaroop Prasad (Cong.), (*Ekangar Sarai*); Vacant (*Fatwa—SC*); Saryu Mirshra (Cong.), (*Forbesganj*); Nitishwar Pd. Sinh (Cong.), (*Gaighatti*); Vacant (*Garhwa*); Raghunandan Majhi (Cong.), (*Garkha—SC*); Taneshwar P. Azad (Cong.), (*Gawan—ST*); Jugal Kishore Prasad

(Cong.), (*Gaya*); Suryadeo Singh (Cong.—O), (*Gaya Muffasil*); Tika Ram Majhi (C.P.I.), (*Ghatsila—ST*); Rajendra Pratap Sinha (Cong.), (*Ghorasahan*); Ramashray Prasad Singh (C.P.I.), (*Ghoshi*); Chaturanan Mishra (C P.I.), (*Giridih*); Prof. Rama Shanker Pandey (Cong.), (*Gobindganj*); Hemant Kumar Jha (Cong.), (*Godda*); Thakur Muneshwar Nath Singh (Cong.—O), (*Goh*); Mrs. Ram Dulari Sinha (Cong.), (*Gopalaganj*); Madan Prasad Singh (Cong.), (*Gopalpur*); Shamayele Nabi (Cong.), (*Goraul*); Vacant (*Goreakothi*); Amrit Prasad (Cong.), (*Govindpur*); Bairagi Oraon (Cong.), (*Guma—ST*); Motilal Sinha Kanan (S.S.D.), (*Hajipur*); Shakur Ahmad (Cong.), (*Harlakhi*); Hidayatullah Khan (Cong.—O), (*Harsidhi*); Vacant (*Hassanpur*); Baleshwar Ram (Cong.), (*Hayaghat—SC*); Raghu Nandan Prasad (Ind.), (*Hazaribagh*); Nawal Kishore Singh (Cong.), (*Shatrughan Prasad Singh (Cong.), (*Hasua*); Awadesh Kumar Singh (Ind.), (*Hassainabad*).

Shatrughan Adityadeo (Ind.), (*Ichagarh*); Awdheshwar Ram (Cong.), (*Imamganj–SC*); Ram Saran Prasad Singh (Cong.), (*Islampur*); Sidiu Hemrom (Cong.), (*Jagannathpur–ST*); Sheo Pujan Verma (Cong.), (*Jagdishpur*); Vacant (*Jahanabad*); Ramphal Paswan (Cong.), (*Jainagar—SC*); Kumar Kalika Singh (Cong.), (*Jalalpur*); Khadim Hussain (C.P.I.), (*Jalley*); Madhan Besra (Cong.), (*Jamma—ST*); Vacant (*Jamalpur*); Kedar Das (C.P.I.), (*Jamshedpur-East*); Ramawtar Singh (C.P.I.), (*Jamshedpur-West*); Durga Prasad Singh (Cong.), (*Jamtara*); Vacant (*Jamua*); Vacant (*Jamui*); Bhagdeo Singh (Cong.), (*Jandaha*); Sree Kant Jha (Cong.), (*Jarmundi*); Vacant (*Jhajha*); Jagannath Mishra (Cong.), (*Jhanjharpur*); Shivkumar Rai (C.P.I.), (*Jharia*); Chhatu Ram Mahto (Ind.), (*Jharidih*); Taslimuddin (Ind.), (*Jokihat*); Sanatan Majhi (Idn.), (*Jugsalai—ST*).

Ramtahal Chowdhary (Ind.), (*Kanke*); Ram Naresh Trivedi (Cong.), (*Kalyanpur*); Shambhu Sharan Thakur (Cong.), (*Kanti*); Mrs. Manorama Pandey (Cong.), (*Karakat*); Ram Narayan Mandal (Cong.), (*Kasva*); Jay Prakash Mishra (Cong.), (*Katoria*); Algu Ram (Cong.-O) (*Kateya–SC*); Rajkishore Prasad Singh (C.P.I.), (*Kathihar*); Vacant (*Keotiranway*); Pitambar Singh (C.P.I.), (*Kesariya*); Ram Saran Yadav (J.S.), (*Khagaria*); Mahendra Narain Jha (Cong.), (*Khagauli*); Rajendra Pd. Singh (Cong.), (*Kharagpur*); Ghulab Singh Munda (A.B.Jd.), (*Kharsawan—ST*); Umrao Sadho Kujur (Cong.), (*Khijri—ST*); Tiru Mochi Rai Munda (Cong.), (*Khumti—ST*); Rafique Alam (Cong.), (*Kishanganj*); Vacant (*Kishanpur*); Rajendra Nath Das (Cong.), (*Kodarma*); S. K. Bage (Cong.), (*Kolebira—ST*); Nand Kumar Singh (Ind.), (*Konch*); Vishwanath Rishideo (Cong.), (*Kodha*); Nagina Rai (Cong.), (*Kuchaikot*); Vacant (*Kurhani*); Jai Kumar Singh (S.S D), (*Kumarkhand*); Ramashraya Prasad Singh (Cond.), (*Kurtha*).

Dir Narain Singh (Cong.), (*Lalganj*); Vijay Virendra Kumar (Cong.), (*Latehar—ST*); Vacant (*Laukaha*); Phulena Rai (Cong.), (*Lauriya*); Bhisma Narayan Singh (Cong.), (*Lesliganj*); Som Murmu (H.J.), (*Litiapara—ST*); Bihari Lakra (Cong.), (*Lohardagga—ST*); Vacant (*Madhupur*); Vindeshwari Prasad Mandal (S.S.D.), (*Madhipura*); Mrs. Raj Pati Devi (C.P.I.), (*Madhuban*); Abdul Ghafoor (Cong.), (*Madhubani*); Ajit Kumar Banerjee (J.S.), (*Madhupur*); Awadh Bihari Singh (Ind.), (*Mahagama*); Mrs. Anusuya (*Maheshpur—ST*); Lahtan Choudhary (Cong.), (*Mahishi*); Vacant (*Mahnar*); Ramnarain Ram (Cong.), (*Mairwa—SC*); Debendra Nath Champia (Ind.), (*Majhgaon—ST*); Surendra Ram (Cong.), (*Majorganj—SC*); Ram Swarup Ram (Cong.), (*Makhdampur—SC*); Ram Nagina Singh (Cong.-O), (*Maner*); Srikrishna Bhagat (Cong.), (*Mandar—SC*); Birendra Kumar Pandey (Cong.), (*Mandu*); Nagendra Jha (Cong.), (*Manigachi*); Vacant (*Manihari*); Vacant (*Manjhi*); Durga Prasad Jamnuda (Cong.), (*Manoharpur—ST*); Bhisma Pd. Yadav (Cong.), (*Madhora*); Bhubneshwar Sharma (C.P.I.), (*Masaudhic*); Ram Ram Deo Singh (Cong.), (*Mashrak*); Mahanth Ram Kishore Das (Cong.), (*Meenapur*); Anant Prasad Singh (Cong.), (*Mirganj*); Suresh Kumar (Cong.), (*Mohaniya—SC*); Kapil Deo Narayan Singh (Cong.), (*Mohiuddin Nagar*); Mrs. Krishna Sahi (Cong.), (*Mokameh*); Prafulla Kumar Mishra (Cong.), (*Monghyr*); Mrs. Prabhawati Gupta (Cong.), (*Motihari*); Vacant (*Murliganj*); Ramdeo Sharma (C.P.I.), (*Muzaffarpur*).

Yugal Singh (Cong.-O), (*Nabinagar*); Bisheshwar Khan (C.P.I.), (*Nala*); Satyanarayan Yadav (Cong.), (*Narpatganj*); Chunchun Prasad Yadav (Cong.), (*Nathnagar*); Kedar Pandey (Cong.), (*Nautan*); Mrs. Gayatri Devi (Cong.), (*Navada*); Lal Bihari Prasad (C.P.I.), (*Navanagar—SC*); Nirmalendu Bhattacharya (C.P.I.), (*Nirsa*); Jagdish Ojha (Cong.-O), (*Nokha*); Narain Singh (Cong.), (*Obra*); S. M. Jafar Ali (Cong.), (*Pakaur*); Mayanand Thakur (Cong.), (*Palasi*); Kanhai Singh (Cong.-O), (*Paliganj*); Maldeo Ram (Cong.), (*Panki–SC*); Daroga Prasad Rai (Cong.), (*Parsa*); Virendra Kumar Sinha (Cong.), (*Paru*); Shivakant Mishra (Cong.), (*Prabatta*); Vacant (*Patahi*); Ghanashyam Mahato (Cong.), (*Patamda*); Rijhan Ram (C.P.I.), (*Patepur—SC*); Jamil (Ahmad (Cong.), (*Patna-East*); Ram Lakhan Singh Yadav (Cong.), (*Patna-South*); Sunil Mukherji (C.P.I.), (*Patna-West*); Ambika Prasad (C.P.I.), (*Peerpaiti*); Uttam Lal Yadav (S.S.D.), (*Phulparas*); Tulsi Ram (C.P.I.), (*Pipra—SC*); Jai Narain (Cong.), (*Piro*); Prithvi Chand Kishku (Cong.), (*Poryahat—ST*); Mahabir Paswan (Cong–O), (*Punpun—SC*); Ram Briksha Choudhary (Cong.), (*Pupari*); Kamaldeo Narain Singh (Cong.-O), (*Purnea*).

Faguni Ram (Cong.), (*Rafignaj—SC*); Vacant (*Raghopur*); Amrendra Mishra (Cong.), (*Raghopur*); Srinivas Narain Singh (Cong.), (*Raghunathpur*); Banwari Ram (Cong.), (*Rajauli—SC*); Chandra Deo Prasad Himansu (C.P.I.(, (*Rajgir—SC*); Nathmahal Dokania (Cong.), (*Rajmahal*); Bilat Paswan (Cong.), (*Rajnagar—SC*); Vacant (*Ramgarh*); Mrs. Shahidunnisa (C.P.I.), (*Ramgarh*); Narain Vikram Shah (Cong.–O), (*Ramnagar*); Deo Dutt Sahu (Cong.), (*Ranchi*); Bundel Paswan (Cong.), (*Raniganj—SC*); Saghir Ahmad (Cong.), (*Razaul*); Ramashray Rai (Int.), (*Rosera*); Tribeni Prasad Singh (Cong.–O), (*Runnisaidpur*); Anandi Prasad Singh (Cong.), (*Rupauli*); Rajdev Ram (Cong.), (*Sahar—SC*); Ramesh Jha (Cong.), (*Saharsa*); Shiv Sharan Singh (Cong.), (*Sahebganj*); Hira Lal Paswan (S.V.D.), (*Sakra—SC*); Vacant, (*Samastipur*); Ramjee Prasas Singh (Ind.). (*Sandesh*); Chandeshwar Prasad (Ind.), (*Sarairanjan*); Satya Bhanu Singhdev (Cong.), (*Saraikela*); Kamdeo Prasad Singh (Cong.), (*Sarath*); Vacant (*Saisai—ST*); Ram Sevak Singh (H.S.D.) (*Sasaram*); Suraj Nath Choubey (Cong.), (*Shahpur*); Lok Nath Azad (C.P.I.), (*Sheikhpura–SC*); Raghunath Jha (Cong.), (*Sheohar*); Jairam Giri (Cong.), (*Sherghati*); Sitaram Prasad (Cong.), (*Shikarpur–SC*); Shibu Murmu (H.J.), (*Shikaripara–ST*); Faiyasul Azam (Cong.), (*Sikta*); Rameshwar Paswan (Cong.), (*Sikandra–SC*); Ram Ratan Ram (Cong.), (*Silli–SC*); Simon Tigga (Cong.), (*Simdega–ST*); Choudhary Md. Salauddin (Cong.), (*Simri Baktiarpur*); Vacant (*Sindri*); Ramjatan Paswan (C.P.I.), (*Sindhia—SC*); Ram Swaroop Singh (C.P.I.), (*Sitamarhi*); Janardan Tiwari (Ind.), (*Siwan*) Sita Ram Mahto (Ind.), (*Sonbarsa*); Sitaram Mahto (Ind.) (*Sonbarsa—SC*); Ram Jaipal Singh Yadav (Cong.), (*Sonepur*); Ramraksha Pd. Yadav (Cong.), (*Sultanganj*);

Ajijul Haque (S.S.D.), (*Sugauli*); Uma Shankar Singh (Cong.), (*Supaul*); Sunaina Sharma (C.P.I.), (*Surajgarh*); Ramacharitra Rai Yadav (Cong.), (*Sursand*).

Vacant (*Tajpur*); Banmali Singh Munda (Cong.), (*Tamar—ST*); Prabhunath Singh (Cong.), (*Taraiya*); Tarni Prasad Singh (Cong.), (*Tarapur*); Mohammed Hussain Azad (Cong.), (*Thakurganj*); Shankar Dayal Singh (Cong.), (*Topchanchi*); Virsing Munda (Jd.—E. Horo Group), (*Torpa—ST*); Vacant (*Tribeniganj*); Satya Narayan Singh (Cong.), (*Tundi*); Laliteshwar Pd. Shahi (Cong.), (*Vaishali*); Chulhai Ram (Cong.), (*Warisnagar*); Shyamsunder Prasad Singh (Cong.—O), (*Warsaliganj*); Shankar Nath Vidyarthi (Ind.), (*Ziradei*); *Nominated :* H. A. Brown.

BIHAR LEGISLATIVE COUNCIL

Ag. Chairman : Dr. Ram Govind Singh.

Seats : 95. Party position : Congress 60 ; Congress (O) 5; Socialist Party 4 ; Jan Sangh 5 ; Teachers 3 ; C.P.I. 4 ; Independents 14 ; No. of women members : 7.

Graduates (8)

Dr. Maheshwari Singh 'Mahesh,' (Ind.) (*Bhagalpur-cum-Saharsa-cum-Purnea*); Dr. Chetkar Jha (Cong.), (*Darbhanga*); Ranjit Bahadur Singh (Cong.), (*Gaya-cum-Shahabad*); Dr. Diwakar Prasad Singh (Ind.), (*Monghyr-cum-Santhal Parganas-cum-Hazaribagh-cum-Dhanbad*); Baidyanath Pandey (Ind.), (*Muzaffarpur-cum-Saran-cum-Champaran*); Ram Ishwar Singh (Cong.), (*Patna*); Dr. Purnendu Narayan Singh (Cong.), (*Patna*); Basant Kumar Lal (Ind.), (*Ranchi-cum-Singbhum-cum-Palamu*).

Teachers (8)

Dr. Sharda Prasad Singh (Ind.), (*Bhagalpur-cum-Saharsa-cum-Purnea*); Arun Kumar (Ind.), (*Gaya-cum-Shahabad*); Dr. Umeshwar Prasad Verma (Ind.), (*Monghyr*); Padamdeo Narain Sharma (Ind.), (*Patna*); Mahendra Prasad (*Ranchi-cum-Singbhum-cum-Palamu*); Sheochandra Jha (Cong.), (*Santhal Parganas-cum-Hazaribagh-cum-Dhanbad*); Kailash Sinha (*Tirhut Division*); Brinda Prasad Rai 'Virendra', (*Tirhut Division*).

Local Authorities (34)

Sahdeo Jha (Cong.-O), (*Bhagalpur*); Ram Sundar Tiwary (Cong.), (*Champaran*); Shivshankar Kanodia (Cong.), (*Champaran*); Rajkumar Mahaseth (Cong.), (*Darbhanga*); Baidyanath Panjiar (Cong.), (*Darbhanga*); Raj Kumar Purbey (C.P.I.), (*Darbhanga*); Raghubansh Singh (Cong.), (*Dhanbad*); Rameshwar Prasad (Cong.), (*Hazaribagh*); Mahendra Pratap Singh (Cong.), (*Hazaribagh*); Ram Lakhan Prasad Gupta (J.S.), (*Monghyr*); Thakur Prasad Singh (Cong.), (*Monghyr*); Raghunath Prasad (Cong.), (*Muzaffarpur*); Ram Bilash Jha (Ind.), (*Muzaffarpur*); Ramnath Gupta (Cong.), (*Muzaffarpur*); Ram Lakhan Pandey (Cong.), (*Palamu*); Umesh Prasad Singh (Cong.), (*Patna-cum-Gaya*); Ram Bilash Sharma (Cong.-O), (*Patna-cum-Gaya*); Brijlala Prasad (Cong.), (*Patna-cum-Gaya*); Kumar Jha (Cong.), (*Patna-cum-Gaya*); Awadh Kumar Singh (Cong.-O), (*Patna-cum-Gaya*); Sitaram Chamaria (Cong.), (*Purnea*); Dinesh Kumar Singh (Cong.), (*Purnea*); Amendranath Shahdeo (J.S.), (*Ranchi*); Budhram Bhagat (Cong.), (*Ranchi*); Shankar Prasad Tekeriwal (J.S.), (*Saharsa*); Bhangeshwar Prasad Rai (Cong.), (*Santhal Parganas*); Sanath Raut (Ind.), (*Santhal Parganas*); Kashinath Gupta (Cong.), (*Saran*); Ram Nath Singh (Cong.), (*Saran*); Shukdeo Shukla (Cong.), (*Saran*); Tapeshwar Singh (Cong.), (*Shahabad*); Indra Kumar (S.S.P.), (*Shahabad*); Vacant (*Shahabad*); Subodh Kumar Sin (Ind.), (*Singbhum*); Ban Bihari Mahto (Ind.), (*Singbhum*).

Legislative Assembly (34)

Nathuni Ram (Cong.); Vijay Kumar Mishra (Cong.); Abdus Sami Nadvi (Cong.); Chandrika Ram (Cong.); Dip Narayan Choudhary (Cong.); Suraj Prasad (C.P.I.); Purusotam Prasad Singh (Cong.); Jageshwar Mandal (Cong.-O); Jamuna Prasad Singh (Cong.); Janardan Pd. Verma (Cong.); Smt. Kishori Devi (Cong.); Manjoy Lal (S.P.); Mungeri Lal (Cong.); Smt. Rajeshwari Saroj Das (Cong.); Dr. Ram Govind Singh (Cong.); Indra Kumar (Ind.); Pashupati Singh (Cong.-O); Ram Sunder Das (S.P.); Rewatikant Singh (S.P.); Rudra Pratap Sarangi (J.S.); Sudama Mishra (Cong.); Jaglal Choudhary (Cong.); Jagdish Narayan Choubey (Cong.); Ram Nandan Singh (Cong.); Sadhu Sharan Singh (Cong.); Smt. Manorama Devi (Cong.); Ramakant Jha (Cong.); Wasi Ahmad (C.P.I.); Shafiquallah Ansari (Cong.); Krishnakant Singh (Cong.); Kamla Singh (S.P.); Jagbandhu Adhikari (J.S.); Krishna Chandra Choudhary (C.P.I.); Bindeshwari Prasad Singh (Cong.).

Nominated (12)

Ahmadi Sattar (Cong.); Fuzlur Rahman (Cong.); Mauleshwar Pd. Singh (Cong.); Smt. Shyama Kumari (Cong.); Kunwar Ram (Cong.); Md. Wali Rahmani (Cong.); Mohamed Shah Umair (Cong.); Shambu Nath Jha (Cong.); Yogendra Mahto (Cong.); Smt. Pramila Jha (Cong.); Premnarayan Garhwal (Cong.); Sudhanshu Kumar Ghosh (Ind.).

DELHI METROPOLITAN COUNCIL

Chief Executive Controller : Radha Raman. *Executive Councillors :* Mange Ram (*Finance*); Krishan Swarup (*Medical*); Om Prakash Bahl (*Civil Supplies*).

Chairman : Mir Mushtaq Ahmad ; *Dy. Chairman :* Jag Pravesh Chand.

Total Seats : 61 (56 elected and 5 nominated). *Electorate:* 2,056,402 ; *Votes polled :* 1,403,061.

Party position : Congress : 43; Jana Sangh : 7; Communist Party : 3 ; Congress Organisation : 2 ; Muslim League : 1 ; Independent : 1. Women members : 4.

Mirza Siddiq Ali (*Cong.*), (*Ajmeri Gate*); Krishna Swarup (Cong.), (*Anand Parbhal-S.C.*); Ram Chander Sharma (C.P.I.), (*Arya Pura*); Rajinder Kumar Tunwar (Cong.), (*Ashok Nagar*); Mool Chand (Cong.), (*Badi-S.C.*); Dr. Mohd. Ahmed (Muslim League), (*Balimaran*); A. L. Ralia Ram (Cong.), (*Barakhamba Road*); Parbhu Dayal (Cong.), (*Basti Julahan-S.C.*); Tek Chand (Ind.), (*Bavana*); Rama Shankar (Cong.), (*Chandni Chowk*); Anwar Ali Dehlvi (J.S.), (*Chawri Bazar*); Mehtab Chand Jain (Cong.), (*Dariba*); Daljit Kumar Tandon (J.S.), (*Daryaganj*); Brij Lal Dua (Cong.), (*Delhi Cantt.*); Shyam Charan Gupta (J.S.), (*Deputy Ganj*); Motilal Bakolia (Cong.), (*Dev Nagar-S.C.*); Inder Singh Azad (Cong.), (*Gandhinagar*); Brij Lal Goswami (Cong.), (*Geeta Colony*); Hargian Singh (Cong.), (*Ghonda*); Asoke Chatterjee (Cong.), (*Gole Market*); Jag Pravesh Chand (Cong.), (*Jangpura*).

Rajesh Sharma (Cong.-O), (*Kala Masjid*); V. P. Singh (Cong.), (*Kalkaji*); Parshottam Lal Goel (Cong.), (*Kamala Nagar*); Dr. Reshan Lal (Cong.), (*Kasabpura*); Nathu

Singh (J.S.), (*Kasturba Nagar S.C.*); Om Prakash Bahl (Cong.), (*Kashmiri Gate*); B. D. Joshi (C.P.I.), (*Kishan Ganj*); Mrs. Archana Kumar (Cong.), (*Lajpat Nagar*); Arjun Dass (Cong.), (*Lakshmibai Nagar*); Sikandar Bakhat (Cong.-O), (*Matia Mahal*); Miss Surinder Saini (Cong.), (*Minto Road*); Bansi Lal Chauhan (Cong.), (*Motia Khan*); K. C. Malik (Cong.), (*Motinagar*); Hukam Singh (Cong.), (*Najafgarh*); Bharat Singh (Cong.), (*Nangloi*); Heera Singh (Cong.), (*Narela*).

Madan Lal Khurana (J.S.), (*Pahar Ganj*); Mange Ram (Cong.), (*Palam*); Vijay Kumar Malhotra (J.S.), (*Patel Nagar*); Ved Prakash (Cong.), (*Pratap Nagar*); Pushpa Devi Gupta (Cong.), (*Prithvi Raj Road*); Thakur Das (Cong.), (*Rajinder Nagar*); Jagdish Chander Mokas (Cong.), (*Ramakrishna Puram*); A. N. Kumar (J.S.), (*Ramnagar*).

Sunderwati Nawalprabhakar (Cong.), (*Rehgarpura-S.C.*); Iqbal Krishan (Cong.), (*Sarai Rohilla*); P. N. Singh (Cong.), (*Sarojini Nagar*); Ram Narain (Cong.), (*Shahdara*); Radhey Lal (Cong.), (*Shakti Nagar*); Sri Chand (C.P.I.), (*Shakur Basti*); Manmohan Singh (Cong.), (*Subhash Nagar*); P. R. Mittal (Cong.), (*Tibbia College*); Amar Nath Malhotra (Cong.), (*Timarpur*); Prem Singh (Cong.), (*Tughlakabad–SC*); B. D. Wadhwa (Cong.), (*Vijay Nagar*).

Nominees: Radha Raman (Cong.); Mir Mushtaq Ahmed (Cong.); Joginder Singh Dara (Cong.); Assuda Mal (Cong.), Kalyan Singh (Cong.).

GOA LEGISLATIVE ASSEMBLY

Speaker: Narayan S. Fugro.

Dy. Speaker: Chandrakant Uttam Chodankar.

Seats: 30. An estimate of Party position is: Maharashtrawadi Gomantak: 19; United Goans: 9; Congress: 1; Independent: 1; Women member: 1.

J. S. D'Souza (U.G.), (*Aldona*); Luta Ferrao (M.G.), (*Benaulim*); Smt. S. G. Kakodkar (M.G.), (*Bicholim*); Jagdish Bhujang Rao (U.G.), (*Calangute*); Ganba Bhagdu Desai (M.G.), (*Canacona*); Dr. L. P. Barbosa (U.G.), (*Cortalim*); Roque Santana Fernandes (U.G.), (*Cuncolim*); Dr. A. H. Prabhu Desai (M.G.), (*Curchorem*); E. Faleiro (U.G.), (*Curtorim*); Haribhai Tandel (Cong.), (*Daman*); Narayan Srinivas Fugro (Ind.), (*Diu*); Ramakant D. Khalap (M.G.) (*Mandrem*); Raghuvir Shanu Pankar (M.G.), (*Mapusa*); Bandodkar Krishna Raju (M.G.), (*Marcaim*); Anant Narcinva Naik (U.G.), (*Margao*); Vasant Joshi (M.G.), (*Mormugao*); Leo Mauricio Velho (U.G.), (*Navelim*).

A. K. S. Usgaonkar (M.G.), (*Pale*); Baban A. Naik (M.G.), (*Panaji*); Jaisingrao Abasaheb Rane (M.G.), (*Pernem*); R. H. Naik (M.G.), (*Ponda*); Dhulo Kuttikar (M.G.), (*Quepem*); Vasudev Datta Morajkar (M.G.), (*Sanguem*); Teotonio Pereira (U.G.), (*Santo Andre*); Dr. Jack De Sequeira (U.G.), (*Santa Cruz*); Rane Pratapsing R. Sardesai (M.G.), (*Satan*); V. D. Chodankar (M.G.), (*St. Estevam*); C. U. Chodankar (M.G.), (*Sidim*); J. P. Naik (M.G.), (*Siroda*); Punaji Achrekar (M.G.), (*Tivim*).

GUJARAT LEGISLATIVE ASSEMBLY

Speaker: Kundanlal Dholakia.

Dy. Speaker: Manubhai Palkhiwala.

Total Seats: 182; Electorate: 13,974,992; Votes Polled: 8,406,342; Invalid Votes: 334,832.

Party Position: Congress 75; Janata Front 87 (Congress Organisation: 56; Jana Sangh 18; Bharatiya Lok Dal: 2; National Labour Party: 1; Independents 8); K.M.L.P. 13; Independents: 6; Vacant: 1; Women Members: 2.

Maheshkumar H. Thakkar (Cong.), (*Abdasa*); Narsinhdas Gordhandas Gondhia (Cong.—O), (*Amreli*); Ranchodbhai S. Solanki (Cong.), (*Anand*); Premjibhai B. Thakkar (Cong.), (*Anjar*); Thakorbhai G. Patel (Cong.-O), (*Ankleshwar*); Laxmanbhai Kalidas Patni (Cong.), (*Asarwa*); Devraj Kansagara Zina (KMLP), (*Babra*); Champaben C. Modi (Ind.), (*Balasinor*); Shankarbhai Laxmanbhai Bagul (Cong.-O), (*Bansda—S.T.*); C. N. Rathod (Cong. O.), (*Bardoli—S.T.*); Dhulabhai Dalabhai Gohel (Cong.-O.), (*Bavla—S.C.*); Lalsinhji K. Rahevar (Cong.-O.), (*Bayad*); Madhavsinh F. Solanki (Cong.), (*Bhadran*); Samant K. Bhatia (Cong.), (*Bhanvad*); Piyushbhai J. Thakore (Cong.), (*Bharuch*); Nagindas Manilal Shah (J.S.), (*Bhavnagar-North*); Manilal G. Gandhi (Cong.-O.), (*Bhavnagar-South*); D. K. Vyas (Cong.-O.), (*Bhiloda*); K. J. Dholakia (Cong.-O.), (*Bhuj*); Umedbhai F. Gohel (Cong.), (*Borsad*); Valabhbhai Jivabhai (Cong.-O.), (*Botad*); Keshavbhai Ratanji Patel (Cong.-O.), (*Bulsar*); Vallabhbhai Ashabhai Patel (Cong.-O.), (*Cambay*); Shankarbhai D. Waghela (Cong.-O.), (*Chaklasi*); Vikrambhai D. Patel (KMLP), (*Chanasma*); Ramanbhai N. Rathva (Cong.-O.), (*Chhota Udepur*); B. Parshottambhai Patel (Cong.-O.), (*Chikhli—S.T.*); T. N. Patel (Cong.-O.), (*Choryasi*); K. K. Makwana (Cong.), (*Chotila*); A. N. Patel (Cong.-O.), (*Dabhoi*); Lalit Bhagwandas Patel (Cong.), (*Dahod*); B. B. Laxmanbhai (Cong.-O.), (*Dangs-Bansda—S.T.*); Harsinji Chavda (Cong.-O.), (*Danta*); Manubhai Palkiwala (Cong.), (*Dariapur Kazipur*); Bhimabhai D. Rathod (Ind.), (*Dasada*); Vishnubhai Kashibhai Patel (Cong.-O.), (*Daskroi*); K. K. Vasava (Cong.), (*Dediapada—S.T.*); V. J. Patel (Cong.-O.), (*Deesa*); G. M. Thakor (J.S.), (*Dehgam*); Shankarlal C. Raval (B.L.D.), (*Deodhar*); Jayadeepsinhji Bharia (KMLP), (*Devgadh-Baria*); Navalbhai N. Shah (Cong.-O), (*Dhandhuka*); Mansukhlal Jayshankar Dave (Cong.), (*Dhanera*); Ramubhai Balubhai Jadav (Cong.-O.), (*Dharampur—S.T.*); Manubhai N. Kotadia (KMLP), (*Dhari*); Parshottambhai R. Makwana (Cong.), (*Dholka*); Chimanlal A. Mehta (Cong.), (*Dhoraji*); Nagindas M. Shah (Ind.), (*Dhrangadhra*); Mirkhi J. Goria (Cong.), (*Dwarka*); B. K. Vasanwala (Cong.-O.), (*Ellis Bridge*); Pratapchand Tarachand Shah (Cong.), (*Gadhada*); P. D. Naik (Cong.), (*Gandevi*); J. Fulchand Patel (Cong.-O.), (*Gandhinagar*); Bherubhai N. Gohil (Cong.), (*Ghogho*); Abdul Karim Ismail Khalpa (Cong.), (*Godhra*); Bhikhabhai S. Popatlal (KMLP), (*Gondal*); Udesinh M. Parmar (BLD), (*Halol*); A. R. Shah (Cong.), (*Halvad*); Bhagwandas H. Patel (Cong.), (*Himmatnagar*); Prof. Soneri K. Hirabhai (Cong.-O.), (*Idar—S.C.*); Ginabhai Ramsinh Vasava (Cong.), (*Jagadia*); G. C. Patel (Cong.), (*Jalalpore*); Abdulrahim Kundiwala (Cong.), (*Jamalpur*); Maganbhai B. Solanki (Cong.), (*Jambusar*); Vithalbhai P. Kalaria (Cong.), (*Jamjodhpur*); V. B. Sheth (B.L.D.), (*Jamnagar*); Bhanji Kama Parmar (Cong.), (*Jamnagar-Rural—S.C.*); Shivrajkumar Chachar (Ind.), (*Jasdan*); Ramniklal D. Patel (Ind.), (*Jetpur*); Mohanbhai Chhotabhai Rathawa (Cong.-O.), (*Jetpur*); Zinabhai Ramsangh Vasava (Cong.), (*Jhagadia—S.T.*); Virjibhai Lambabhai Munia (Cong.), (*Jhalod*); Kantilal P. Shah (Cong.), (*Jodiya*); Khushalbhai H. Parmar (Cong.-O.), (*Jotana—S.C.*); Smt. Hemaben Suryakant Acharya (J.S.), (*Junagadh*); Prahaladbhai K. Patil (J.S.), (*Kadi*); Bhimjibhai V. Patel (Ind.), (*Kalawad*); Chimanbhai Purshottamdas

Patel (Cong.-O.), (*Kalol*); Maneklal N. Gandhi (Cong.-O.), (*Kalol*); Rajkumar G. Gupta (Ind.), (*Kalupur*); D. M. Rathod (Cong.-O.), (*Kamrej—S.T.*); Bhikhabhai P. Mafatlal (Cong.-O.), (*Kankrej*); Budhaji J. Chauhan (Cong.), (*Kapadwanj*); R. T. Leuva (Cong.), (*Karjan—S.C.*); Maganbhai Gokalbhai Zala (Cong.-O.), (*Kathlal*); Devjibhai B. Vanvi (Cong.), (*Keshod—S.C.*); Ashokkumar Bhatt (J.S.), (*Khadia*); Hemabhai R. Madam (Ind.), (*Khambhalia*); Bhaijibhai Bhanabhai Tadvi (KMLP), (*Kheda*); Kandaji K. Katara (Cong.-O), (*Khedbrahma—S.T.*); Shankarji Okhaji Thakore (Con.), (*Kheralu*); Pratapsinh A. Mori (KMLP), (*Kodinar*); Lallubhai Sethi (Ind.), (*Kundla*); Vejabhai S. Kabaliya (Cong.), (*Kutiyana*); Maneklal Jerambhai Bhadani (KMLP), (*Lathi*); Nandlal S. Shah (Cong.), (*Limbdi*); Malsinh Fatesinh Damor (Cong.), (*Limdi—S.T.*); Virsinh G. Mohaniya (Cong.-O.), (*Limkheda*); Shantilal G. Shah (Cong.-O), (*Lunawada*); Balwantsinh S. Sodha (Cong.), (*Mahudha*); Dhanjibhai K. Dhodia (Cong.), (*Mahuva—S.T.*); Chabildas P. Mehta (Cong.), (*Mahuva*); Dharmasinh Dayabhai Patel (KMLP), (*Malia*); Vallabhbhai Popatlal Patel (KMLP), (*Manavadar*): Kantilal Ishwardas Patel (Cong.-O.), (*Mandal*); S. R. Mehta (J.S.), (*Mandvi*); Jethalal R. Jora (Cong.), (*Mangrol*); M. J. Vasava (Cong.), (*Mangrol—S.T.*); N. M. Barot (N.L.P.), (*Maninagar*); Motibhai R. Chaudhari (Cong.-O.), (*Mansa*); Gordhanbhai S. Patel (Cong.), (*Matar*); Jethalal G. Gandhi (Cong.-O.), (*Meghraj*); Ramanbhai N. Patel (Ind.), (*Mehmedabad*); Bhavansinhji Dansinji Zala (Cong.-O.), (*Mehsana*); Arjanbhai B. Patel (J.S.), (*Modrasa*); Gokalbhai Parmar (Cong.), (*Morvi*); Uttambhai H. Patel (Cong.), (*Mota Pondha—S.T.*); M. S. Motharia (Cong.), (*Mundra—S.C.*); Dinsha Z. Patel (Cong.), (*Nadiad*); Khubchandani Thavardas Ladharam (Cong.-O.), (*Naroda*); Bhil Meghabhai Jagabhai (Cong.), (*Naswadi—S.T.*); V. N. Patel (Cong.-O.), (*Navsari*); Govindbhai B. Vasava (Cong.), (*Nijhar—S.T.*); Prabhubhai D. Patel (Cong.-O.), (*Olpad*); Jaswantlal S. Shah (Cong.-O.), (*Padra*); L. Hemrajbhai Bhachani (J.S.), (*Palanpur*); Keshri Sinh Sariya (Cong.), (*Palitana*); C. J. Patel (J.S.), (*Pardi—S.T.*); Bhagwandas N. Amin (J.S.), (*Patan*); Mohanbhai C. Rathwa (Cong.-O.), (*Pavi-Jethpur*); Fulabhai Vardhabhai Patel (Cong.-O.), (*Petlad*); Vasantji Kharai Thakkar (J.S.), (*Porbandar*); Dipsinh J. Rathod (Ind.), (*Prantij*); Khoodidas Bhimji Zala (Cong.), (*Radhanpur*); Shantilal Parsottambhai Patel (Cong.-O.), (*Rajgadh*); Keshubhai S. Patel (J.S.), (*Rajkot I*); Arvindbhai Maniyar (J.S.), (*Rajkot II*); Bhanubhai Gigabhai Waghela (Cong.), (*Rajkot Rural— S.C.*); Himatbhai Mathurbhai Rajwadi (Cong.), (*Rajpipla*); Jaswant Mehta (Cong.), (*Rajula*); M. R. Barot (Cong.), (*Rakhial*); Badiyabhai M. Gondiya (Cong.), (*Randhikpur—S.T.*); Bhailalbhai Garbadas Contractor (Cong.-O.), (*Raopura*); Haribhai Patel (Cong.), (*Rapar*); Babubhai J. Patel (Cong.-O.), (*Sabarmati*); Nanji Virji Thakore (J.S.), (*Sami*); Jivabhai M. Damor (Cong.), (*Santrampur*); B. K. Chauhan (J.S.), (*Sarkhej*); Govindbhai J. Patel (Cong.), (*Sarsa*); Pratapsinh Jorsinh (*Cong.*), (*Savli*); G. G. Paradkar (S.P.), (*Sayajiganj*); Dalabhai R. Parmar (Cong.), (*Sehra*); N. K. Makwana (Cong.), (*Shaherkotda*); Pramodchand Chandhulal Patel (J.S.), (*Shahpur*); Bhaijibhai B. Tadvi (KMLP), (*Shankheda*); Manubhai Vyas (Cong.), (*Shihor*); Vithaldas Dosabhai Patel (Cong-O.), (*Sidhpur*); Venker I. Naranbhai (Cong.-O.), (*Sojitra–S.C.*); Smt. Ayisha Begumsaheba M. Sheikh (Cong.), (*Somnath*); V. G. Gamit (Cong.); (*Songadh—S.T.*); K. C. Rana (J.S.), (*Surat-City-East*); Shambhubhai V. Patel (Cong.O.), (*Surat City-North*); P. M. Vyas (Cong.-O.), (*Surat City-West*); Gigabhai Gohil (Cong.), (*Talala*); Kanjibhai K. Mori (Cong.), (*Talala*); Govindbhai Jethabhai Boda (KMLP), (*Tankara*); Y. Y. Malik (Cong.), (*Thasra*); C. V. Patel (Cong.), (*Umbergaon—S.T.*); Hariharbhai U. Khambholia (Cong.), (*Umrath*); Rasikchandra D. Acharya (J.S.), (*Una*); Kantilal M. Patel (Ind.), (*Unjha*); Jayram A. Patel (Cong.), (*Upleta*); Ashokbhai Amrabhai Dabhi (Cong.O), (*Vadgam—S.C.*); Makarand Balwantray Desai (J.S.), (*Vadodara City*); Thakorbhai M. Patel (Cong.-O.), (*Vadodara Rural*); Vijaykumar M. Trivedi (Cong.), (*Vagdod*); Sanatkumar M. Mehta (Cong.), (*Vaghodia*); Vijaysinhji Mansinghji Rana (Cong.), (*Vagra*); Hemabhai D. Parmar (Cong.), (*Vav*); Amratbhai Kalidas Patel (Ind.), (*Vijapur*); Vacant (Viramgam*); Kurjibhai D. Dhesania (KMLP), (*Visavadar*); Sankalchand K. Patel (Ind.), (*Visnagar*); Amarsinh B. Chaudhari (Cong.), (*Vyara*); C. N. Bhalabhai (Cong.), (*Vyara—S.T.*); Jivansinh J. Parmar (Ind.), (*Wadhwan*); Janak Kumarsinhji Jhala (Cong.), (*Wankaner*).

HARYANA VIDHAN SABHA

Speaker : Chaudhri Sarup Singh.

Dy. Speaker : Mrs. Lekhwati Jain.

Seats : 81. *Electorate :* 5,091,082; *Votes polled :* 3,587,048. *Party position :* Congress : 51; Congress (O) 3; Jana Sangh : 2; Vishal Haryana Party : 3; Progressive Independent Party : 1; Independents : 14; Bharatiya Kranti Dal : 4; Vacant : 3 : Women members : 5.

Bhajan Lal (Cong.), (*Adam Pur*); Mrs. Lekhwati Jain (Cong.), (*Ambala City*); Hans Raj Suri (Cong.), (*Ambala Cantt.*); Bansi Singh (V.H.P.), (*Ateli*); Chand Ram (B.K.D.), (*Babain–SC*); Mrs. Lajja Rani (Cong.), (*Badhra*); Hardwari Lal (B.K.D.), (*Bhaadurgarh*); Mehar Chand (Cong.), (*Badopal*); Smt. Sharda Rani (Cong.), (*Ballabgarh*); Shyam Chand (Cong.), (*Baroda–SC*); Pir Chand (Cong.-O), (*Barwala–SC*); Ram Parshad (Cong.), (*Bawal—SC*); Amar Singh (V.H.P.), (*Bawanikhera–SC*); Pratap Singh Daulata (Ind.), (*Beri*); Banarsi Das Gupta (Cong.), (*Bhiwani*); Prabhu Ram (Cong.), (*Chhachrauli–SC*); Gordhan Das (Cong.), (*Dabwali–SC*); Ganpat Rai (Cong.-O), (*Dadri–SC*).

Brij Lal (Cong.), (*Ellenabad*); Kanwal Nain Gulati (Ind.), (*Faridabad*); Pokar Ram Godara (Cong.), (*Fatehbad*); Abdur Razak Khan (Ind.), (*Ferozepur Jhirka*); Rulya Ram (Ind.), (*Gharunda*); Ram Dhari Gaur (Cong.), (*Gohana*); Mahabir Singh Yadav (Cong.), (*Gurgaon*); Ishar Singh Saini (Ind.), (*Hansi*); Bihari Lal Balmiki (Cong.), (*Hassanpur–SC*); Maru Singh (Cong.), (*Hassangarh*); Ramjilal (Ind.), (*Hathin*); Gulab Singh Jain (Cong.), (*Hissar*); Prasanni Devi (Cong.), (*Indri*); Om Parkash (Ind.), (*Jagadhri*); Maha Singh (Cong.), (*Jatusana*); Dal Singh (B.K.D.), (*Jind*); Manphool Singh (Ind.), (*Jhajjar*); Fateh Singh (Cong.), (*Julana*); Ram Kishan Azad (Cong.), (*Jundla–SC*).

Pratap Singh Tiagi (Ind.), (*Kailana*); Charan Das (Ind.), (*Kaithal*); Satram Dass Batra (Cong.), (*Kalanaur*); Bhagat Ram (P.I.P.), (*Kalayat–SC*); Kishori Lal (Cong.), (*Kalka*); Dalip Singh (V.H.P.), (*Kanina*); Ram Lal Wadhwa (J.S.), (*Karnal*); Shreyo Nath (B.K.D.), (*Kiloi*); Mrs. Chandrawati (Cong.), (*Loharu*); Harswarup Bora (Ind.), (*Meham*); Nihal Singh (Cong.), (*Mehendergarh*); Phool Chand (Cong.), (*Mullana–SC*); Sarup Singh (Cong.), (*Mundhal Khurd*); Harmohinder Singh Chatha (Cong.), (*Naggal*); Jagjit Singh Tihka (Cong.), (*Naraingarh*); Ram Saran Chand Mital (Cong.), (*Narnaul*); Joginder Singh Sheoran (Cong.), (*Narnaund*); Gauri Shankar (Ind.), (*Narwana*); Mansa Ram (Cong.), (*Naultha*); Shiv Ram Verma (J.S.), (*Nilokheri*); Kabir Ahmed (Cong.), (*Nuh*).

Shamlal (Ind.), (*Palwal*); Hakumat Rai (Cong.)

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* Polling countermanded because of the death of J.F. candidate.

(*Panipat*) ; Sis Ram (Cong.), (*Pataudi*) ; Piara Singh (Cong.), (*Pehowa*) ; Ishwar Sing (Cong.), (*Pundri*) ; Ch. Rizaq Ram (Cong.-O.), (*Rai*) ; Jogi Ram (Ind.), (*Rajaund—S.C.*) ; Abhey Singh (Cong.), (*Rewari*) ; Phool Chand (Ind.), (*Rohat–SC*) ; Shrikishan Das (Cong.), (*Rohtak*); Devi Lal (Ind.), (*Rori*); Dhajja Ram (Cong.), (*Safidon*) ; Phul Singh Kataria (Cong.), (*Salhwas–SC*) ; Hari Singh (Cong.), (*Sanbalka*); *Prem Sukh Das* (Cong.), (*Sirsa*); Amir Chand Kakar (Cong.), (*Shahabad*) ; Surjit Singh Man (Cong.), (*Sherhada*) ; K. L. Poswal (Cong.), (*Sohna*) ; Chiranji Lal Sharma (Cong.), (*Sonepat*) ; Om Prakash Garg (Cong.), (*Thanesar*) ; Harpal Singh (Cong.), (*Tohana*) ; Bansi Lal (Cong.), (*Tosham*) ; Girish Chander Joshi (Cong.), (*Yamunanagar*).

HIMACHAL PRADESH VIDHAN SABHA

Speaker : Kultarchand Rana.

Seats : 68 ; *Electorate* : 1,804,435. *Party position :* Congress 55; Jan Sangh 5; Communist Party of India (Marxists) 1 ; Lok Raj Party 2 ; Independents : 5 ; Women Members : 5.

Hira Singh Pal (Lok Raj), (*Arki*) ; Sant Ram (Cong.), (*Baijnath*) ; Tulsi Ram (C.P.M.), (*Balh—S.C.*) ; Mrs. Chandresh Kumari (Cong.), (*Bamsan*) ; Des Raj (Cong.), (*Banikhet*) ; Kashmiri Lal (Cong.), (*Beet*) ; Siri Ram Gaddi (Cong.), (*Bharmour—ST*) ; Mrs. Padma (Cong.), (*Bhattiyat*) ; Kishori Lal (Cong.) (*Bilaspur*) ; Karam Singh (Cong.), (*Chachiot*) ; Kishori Lal (J.S.), (*Chamba*) ; Onkar Chand (Cong.), (*Chintpurni*) ; Ram Singh (Ind.), (*Chauntra*) ; Kewal Ram Chauhan (Cong.), (*Chopal*) ; Bhikam Ram (Ind.), (*Dharampur*) ; Chander Verkar (Cong.), (*Dharamsala*) ; Lekh Ram (Cong.), (*Doon*).

Dhinoo Ram (Cong.), (*Gangeth—S.C.*) ; Mehnga Singh (Cong.), (*Gagret—S.C.*) ; Nikku Ram (Cong.), (*Gherwin—S.C.*) ; Sita Ram (Cong.), (*Ghumarvin*) ; Dalip Singh (Cong.), (*Garli—S.C.*) ; Rangila Ram (Ind.), (*Gopalpur*) ; R. C. Verma (Cong.), (*Hamirpur*) ; Salig Ram (Cong.), (*Jaswan*) ; Mela Ram Saver (Ind.), (*Jawalamukhi*) ; Vikram Singh (Cong.), (*Jawali*) ; Parkash Chandra (Cong.), (*Jogindernagar*) ; Ram Lal (Cong,), (*Jubbal-Kotkhai*); Bhagwan Singh (Cong.), (*Kandaghat—S.C.*) ; Hari Ram (Cong.), (*Kangra*) ; Mansa Ram (Cong.), (*Karsog—S.C.*); Shonkia Ram (Cong.), (*Kasumpti—S.C.*) ; Shanta Kumar (J.S.), (*Khera*) ; T. S. Negi (L.R.P.), (*Kinnaur—S.T.*) ; Kuldip Singh (Cong.), (*Kot Kehloor*) ; Lal Chand Prarthi (Cong.), (*Kulu*) ; Jai Bihari Lal Khachi (Ind.), (*Kumarsain*) ; Sarla Sharma (Cong.), (*Kutlehar*) ; Smt. Lata Thakur (Cong.), (*Lahaul-Spiti—S.T.*) ; Vacant (Cong.) (*Mandi*) ; Dr. Chura Mani (Cong.), (*Mangwal*) ; Dharam Singh (Cong.), (*Mewa—S.C.*).

Babu Ram (Cong.), (*Nadaun*) ; Bishan Datt Lakhanpal (Cong.), (*Nadaunta*) ; Hardial (Cong.), (*Nagrota*) ; Sunder Singh Thakur (Cong.), (*Nahan*) ; Arjan Singh (Cong.), (*Nalagarh*) ; Kewal Singh (Ind.), (*Nurpur*) ; Zalam Singh (Cong.), (*Pachhad—S.C.*) ; Kunj Bihari Lal Butail (Cong.), (*Palampur*) ; Hitinder Singh (Cong.), (*Paonta-Doon*) ; Y. S. Parmar (Cong.), (*Rainka*) ; Wazir Chand (Cong.), (*Rajgir—S.C.*) ; Vidya Dhar (Cong.), (*Rajnagar*) ; Nek Ram Negi (Cong.), (*Rampur*) ; Amrit Singh Rathore (Cong.), (*Rohru*) ; Ram Rakha (Cong.), (*Santokhgarh*) ; Dile Ram Shabab (Cong.), (*Seraj-Inner*) ; Ishar Dass (Cong.), (*Seraj-Outer*) ; Kultar Chand Rana (Cong.), (*Shahpur*) ; Guman Singh Chauhan (Cong.), (*Shillai*) ; Daulat Ram Chauhan (J.S.), (*Simla*) ; Krishan Dutt (Cong.), (*Solan—S.C.*) ; Durga Chand (J.S.), (*Sulah*) ; Ganga Singh (J.S.), (*Sundernagar*) ; Vidya Stokes (Cong.), (*Theog*) ; Parkash Chand (Cong.), (*Una*).

JAMMU AND KASHMIR LEGISLATIVE ASSEMBLY

Speaker : Abdul Gani Goni.

Dy. Speaker : Beli Ram.

Seats : 75. *Electorate :* 2,113,862 ; *Votes polled :* 1,406,098. *Party position :* Congress 58 ; Jamat-i-Islami 5 ; Jana Sangh 3 ; Independents 7 ; Vacant 2 ; Women Members : 4.

Dharam Pal (Cong.), (*Akhnoor*) ; Mrs. Zainab Begum (Cong.), (*Amirakadal*) ; Shamsuddin (Cong.), (*Anantnag*) ; Ali Mohd. Mir (Cong.), (*Badgam*) ; Mohd. Anwar Khan (Cong.), (*Bandipora*) ; Mrs. Hajra Begum (Cong.), (*Banihal*) ; Mohd. Maqbool Mahjoo (Cong.), (*Baramulla*) ; Mangat Ram (Cong.), (*Basohli*) ; Abdul Khaliq Mir (Cong.), (*Beerwa*) ; Narayan Das (J.S.), (*Bhaderwah—S.C.*) ; Saif-Ud-Dina Dar (Cong.), (*Bijbahera*) ; Randhir Singh (Cong.), (*Billawar*) ; Parmanand (Cong.), (*Bishna—S.C.*) ; Gulam Mustafa Mir (Cong.), (*Chadura*) ; Abdul Qayoom (Cong.), (*Charar-i-Sharif*) ; K. Divakar Singh (Cong.), (*Chhamb*).

Abdul Rashid (Cong.), (*Darhal*) ; Mirza Afzal Beg (Ind.), (*Devsar*) ; Hans Raj Dogra (Cong.), (*Doda*) ; Sheikh Mohd. Abdullah (Ind.), (*Ganderbal*) ; Mohd. Ayub Khan (Cong.), (*Ghulab Garh*) ; Mubarak Shah (Ind.), (*Gulmarg*) ; Ghulam Mohammad Bhat (Ind.), (*Habakadal*) ; Abdul Gani Lone (Cong.), (*Handwara*) ; Abdul Gani Mir (Cong.), (*Harl*) ; Sofi Ghulam Ahmed (Ind.), (*Hazaratbal*) ; Abdul Gani Goni* (Cong.), (*Inderwal*) ; Trilochan Dutta (Cong.), (*Jammu Cantt.*) ; Abdul Rahman (J.S.), (*Jammu North*) ; Chaman Lal Gupta (J.S.), (*Jammu South*) ; Miss Shanta Bharti (Cong.), (*Jandrah-Gharota*) ; G. L. Dogra (Cong.), (*Jasmergarh*).

Bashir Ahmed Mian (Cong.), (*Kangan*) ; K. Mohamed Ali Khan (Cong.), (*Kargil*) ; Mohamed Yasin Shah (Cong.), (*Karnah*) ; Punjab Singh (Cong.), (*Kathua—S.C.*) ; Saif-ud-Din Qari (Jam-i-Isl.), (*Khanyar*) ; Ghulam Qadir War (Cong.), (*Khan Sahib*) ; Peer Naizamuddin (Cong.), (*Kishtwar*) ; Mohd. Ashraf Khan (Cong.), (*Kothar*) ; Abdul Razak Mir (Jam-i-Isl.), (*Kulgam*) ; Ghulam Mohamed Shah (Cong.), (*Kupwara*) ; Sonam Wangal (Cong.), (*Leh*) ; Saifullah Bhat (Cong.), (*Lolab*) ; Sushil Kumar (Cong.), (*Marh—S.C.*) ; Ch. Mohd. Aslam (Cong.), (*Mendhar*) ; Ali Mohamed Dar (Jam-i-Isl.), (*Nandi*) ; Abdul Aziz Zargar (Cong.), (*Noorabad*) ; Peer Hisam-ud-Din (Cong.), (*Nowbug*) ; Beli Ram (Cong.), (*Nowshera*) ; M. L. Fotedar (Cong.), (*Pahalgam*) ; Gulam Hasan Masoodi (Cong.), (*Pampore*) ; Ghulam Qadir Bedar (Cong.), (*Pattan*) ; Ghulam Mohammad (Cong.), (*Poonch*) ; Sonaullah Dar (Cong.), (*Pulwama*).

Mohd. Yusuf Dar (Cong.), (*Rafiabad*) ; Talib Hussain (Cong.), (*Rajouri*) ; Bashir Ahmed Magrey (Cong.), (*Rajpora*) ; Mohd. Akhtar Nizami (Cong.), (*Ramban*) ; Baldev Sharma (Cong.), (*Ramgarh*) ; Chandu Lal (Cong.), (*Ramnagar—S.C.*) ; Rangil Singh (Cong.), (*Ranbisinghpora*) ; Rishi Kumar Kaushal (J.S.), (*Reasi*) ; Abdul Rashid Kabli (Ind.), (*Safakadal*) ; Gauri Shankar (Cong.), (*Samba—S.C.*) ; Abdul Majid Bandey (Ind.), (*Shopian*) ; Abdul Aziz Parrey (Cong.), (*Sonawari*) ; Syed Ali Shah Geelani (Jam-i-Isl.), (*Sopore*) ; Ghulam Nabi Nowsheri (Jam-i-Isl.), (*Tankipora*) ; Smt. Nirmala Devi (Cong.), (*Tikri*) ; Ali Mohammad Naik (Cong.), (*Tral*) ; Dev Datt (Cong.), (*Udhampur*) ; Mohammed Shafi (Cong.), (*Uri*) ; Syed Mir Qasim (Cong.), (*Verinag*) ; Salim Anwar (Ind.), (*Zadabil*).

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* Speaker has no party affiliation.

JAMMU AND KASHMIR LEGISLATIVE COUNCIL

Acting Chairman : Syed Hussain.

Deputy Chairman : Gurmukh Singh.

Strength : 36 ; Woman members : 2.

Legislative Assembly : Janak Raj Gupta ; Mohd. Din Bandey ; Mufti Mohammad Shaffi ; G. M. Mir ; Amir Ullah Khan ; Sona Ullah Bodah ; Aga Ibrahim Shah ; S. L. Mahajan ; Seva Ram Parihar ; C. L. Sharma ; P. Namgial ; Brig. Ghansara Singh ; G. M. Misgar ; Sain Dass Gupta ; Smt. Prakash Rani ; Ch. Fateh Mohammad ; Ghulam Rasool Kar ; Vacant 1.

Local Authorities : Vacant 2.

Panchayat Constituency : Vacant 2 ; Mirza Ghulam Ahmed Beg ; Moti Ram Baigra.

Nominated : Haji Mir Alam Naqushbandi ; Maulvi Iftikar Hussain Ansari ; Bhagat Chajju Ram ; Vacant 5.

KARNATAKA LEGISLATIVE ASSEMBLY

Speaker : Mrs. K. S. Nagarathnamma.

Dy. Speaker : B. P. Kadam.

Seat : 216 ; *Electorate :* 15,083,923 ; *Votes polled :* 9,480,647. *Party position :* Congress : 164 ; Congress (Organisation) 25 ; Communist Party of India 3; Communist Party of India (Marxists) : 1 ; Republican Party of India : 1, Janata Paksha : 1 ; Socialist Party : 2 ; Vacant : 3 ; Independents : 18 ; Women members : 11.

D. Balavantrao (Cong.), (*Afzalpur*) ; A. R. Veerabhadrappa (Cong.), (*Aland*) ; M. B. Ramaswamy (Cong.), (*Anekal–S.C.*) ; Mrs. Radha Mahabaleshwar Bhatt (Cong.), (*Ankola*) ; V. S. Koujalgi (Cong.), (*Arbhavi*) ; H. N. Nanje Gowda (Cong.), (*Arkalgud*) ; A. Nanjappa (Cong.), (*Arsikere*) ; A. A. Desai (Cong.), (*Athani*) ; Bapurao Patil (Ind.), (*Aurad*) ; R. T. Desai (Cong.), (*Badami*) ; B. T. Murnal (Cong.), (*Bagalkot*) ; Mrs. Renuka Rajendran (Cong.), (*Bagepalli–S.C.*) ; B. S. Patil (Cong.-O), (*Bagewadi*) ; S. A. Patil (Cong.), (*Bagewadi*) ; P. B. Patil (Cong.-O), (*Bailhongal*) ; A. G. Kodgi (Cong.), (*Baindur*) ; J. L. Kabade (Cong.-O), (*Ballolli–S.C.*) ; K. Made Gowda (Cong.-O), (*Bannur*) ; B. V. Kakkilaya (C.P.I.), (*Bantwal*) ; B. Anand Rao (Cong.), (*Basavakalyan*) ; Amir Rahamathulla Khan (Cong.), (*Basavanagudi*) ; B. B. Sayanak (Ind.), (*Belgaum*) ; V. Nagappa (Cong.-O), (*Bellary*) ; K. Subramanya Gowda (Cong.), (*Belthangady*) ; S. H. Pattaranganath (Cong.), (*Belur*) ; K. M. Doraswami Naidu (Ind.), (*Bethamangala*) ; Abdul Khuddus Anwar (Cong.), (*Bhadravathi*) ; Subbash Asture (Cong.), (*Bhalki*) ; H. B. Lakshmana (Ind.), (*Bharamasagara–S.C.*) ; D. Poosalingam (Ind.), (*Bharathynagar*) ; S. M. Yahya (Cong.), (*Bhatkal*) ; Manik Rao R. Phulekar (Cong.), (*Bidar*) ; K. T. Rathod (Cong.), (*Bijapur*) ; G. K. Maritammappa (Cong.), (*Bilgi*) ; N. S. Gurusiddappa (Ind.), (*Biligere*) ; M. Mallappa (Cong.), (*Birur*) ; Jayaprakash Shetty Kolkebali (Cong.), (*Brahmvar*) ; K. F. Patil (Cong.), (*Byadgi*).

V. Masiyappa (Cong.), (*Challakere*) ; S. Puttaswamy (Cong.), (*Chamarajanagar*) ; R. Dayananda Sagar (Cong.), (*Chamarajpet*) ; K. Puttaswamy (Cong.), (*Chamundeswari*) ; N. G. Halappa (Cong.) (*Channagiri*) ; T. V. Krishnappa (Cong.), (*Channapatna*) ; C. V. Venkatarayappa (Cong.), (*Chickballapur*) ; Mrs. E. E. Vaz (Cong.), (*Chickmagalur*) ; N. Basaviah (Cong.-O), (*Chicknayakanahalli*) ; K. M. Naganna (Janata Paksha), (*Chickpet*) ; P. P. Hegre (Cong.), (*Chikodi–S.C.*) ; Devendrappa Ghallappa (Cong.), (*Chincholi*) ; Chowda Reddy (Cong.), (*Chintamani*) ; Mrs. Vijaya Desai (Cong.), (*Chitapur*) ; C. R. Mohamad Saifuddin (Cong.), (*Chitradurga*); Mrs. Winnifred F. Fernandez (Cong.) (*Coondapur*) ; Mrs. C. Nagamma Keshavamurthy (Cong.), (*Davanagere*) ; A. Sharanappa (Cong.-O), (*Deodurg*) ; M. R. Jayaram (Cong.), (*Devanahally*) ; D. K. Naikar (Cong.), (*Dharwar*) ; Mrs. Sumati B. Madiman (Cong.), (*Dharwar—Rural*) ; G. Rame Gowda (Cong.), (*Doddaballapur*) ; T. R. Shamanna (Ind.), (*Fort*).

K. H. Patil (Cong.), (*Gadag*) ; M. Nanjegowda (Cong.), (*Gandasi*) ; K. Sreeramulu (Cong.), (*Gandhinagar*) ; H. G. Ramulu (Cong.), (*Gangavathi*) ; G. C. Thammanna (Cong.), (*Gokak—S.T.*) ; V. Krishna Rao (Cong.), (*Gowribidanur*) ; Gatti Chandrasekhar (Cong.), (*Gubbi*) ; M. A. Mehtab Ali (Cong.), (*Gulbarga*) ; B. M. Horakeri (Cong.), (*Guledgud*) ; Dedda Thimmaiah (Cong.), (*Gulur—S.C.*) ; Mrs. K. S. Nagarathanamma* (Cong.), (*Gundlupet*) ; Mallikarjun (Cong.), (*Gurmitkal—S.C.*) ; C. Andaneppa (Cong.), (*Hadagalli*) ; G. V. Mallappa (Cong.), (*Haliyal*) ; P. C. Shettar (Cong.), (*Hangal*) ; R. Rache Gowda (Cong.), (*Hanur*) ; D. Narayana Das (Cong.), (*Harapanahalli—S.C.*) ; H. Siddaveerappa (Cong.), (*Harihar*) ; K. H. Hanume Gowda (Cong.—O), (*Hassan*) ; F. S. Taware (Cong.), (*Haveri*) ; R. Peeranna (Cong.—O), (*Heggadadevanakote—S.C.*) ; B. G. Banakar (Cong.), (*Hirekerur*) ; K. H. Ranganath (Cong.), (*Hiriyur—S.C.*) ; B. Parameswarappa (Cong.), (*Holalkere*) ; H. D. Devegowda (Cong.—O), (*Holenarasipura*) ; H. B. Kadasiddappa (Cong.), (*Honnali*) ; M. V. Rudrappa (Cong.), (*Hosadurga*) ; Shreeranaly Chandrasekhar (Cong.), (*Hosanagar*) ; N. Chikke Gowda (Cong.), (*Hoskote*) ; B. Satyanarayana Singh (Cong.), (*Hospet*) ; I. G. Sanadi (Cong.), (*Hubli*) ; G. R. Sandra (Cong.), (*Hubli Rural*) ; V. B. Nooli (Cong.-O), (*Hukkeri*) ; N. Hutchamasti Gowda (Cong.), (*Huliyurdurga*) ; Mahendra Kumar Kallappa (Cong.), (*Hulsoor–S.C.*) ; V. N. Patil (C.P.I.), (*Humnabad*) ; S. B. Nagaral (Cong.), (*Hungund*) ; Devraj Urs (Cong.), (*Hunsur*) ; K. D. Patil (Cong.-O), (*Huvina Hippargi*).

M. K. Surpur (Cong.), (*Indi.*) ; G. H. Aswatha Reddy (Cong.), (*Jagalur*) ; P. M. Bangi (Cong.), (*Jamkhandi*) ; Dharm Singh Narayansingh (Cong.), (*Jewargi*) ; K. R, Honnappa (Cong.), (*Kadur*) ; R. D. Kittoor (Cong.). (*Kagwad–S.C.*) ; Channapa Gouda Patil (Cong.), (*Kalghatgi*) ; Prabhakar Telkar (Cong.), (*Kalgi*) ; T. Tare Gowda (Cong.), (*Kallambella*) ; Shivanna Bheemappa (Cong.), (*Kalmala–S.C.*) ; Subhas S. Patil (Cong.), (*Kamalapur*) ; S. Kariyappa (Cong.), (*Kanakapura*) ; M. Veerappa Moily (Cong.), (*Karkal*) ; B. P. Kadam (Cong.), (*Karwar*) ; B. Bhaskar Shetty (Cong.), (*Kaup*) ; N. B. Sirdesai (Ind.), (*Khanapur*) ; G. Made Gowda (Cong.), (*Kirugavalu*) ; Inamdar Basannagowda (Cong.—O), (*Kittur*) ; D. Venkataramaiah (Cong.), (*Kolar*) ; C. M. Arumugam (R.P.I.), (*Kolar Gold Field—S.C.*) ; Siddamadaiah (Cong.), (*Kollegal—S.C.*) ; M. V. Shivappa (Cong.), (*Koppal*) ; Mudda Ramiah (Cong.), (*Koratagere*) ; Venkatalingaiah (Cong.—O), (*Krishnaraja*) ; H. B. Kenche Gowda (Cong.), (*Krishnarajanagar*) ; S. M. Lingappa (Cong.), (*Krishnarajpet*) ; B. S. Veerabhadrappa (Cong.—O), (*Kudligi*) ; Bettaswamy Gowda (Ind.), (*Kudur*) ; Naik Sitaram Vasudev (Cong.), (*Kumta*) ; R. V. Ranganna Gowda (Cong.), (*Kundgol*) ; Andanaiah (Cong.), (*Kunigal*); H. Linga Reddy (Cong.), (*Kurugodu*) ; K. B. Desai (Cong.), (*Kushtagi*) ; C. N. Patil (Cong.), (*Lingsugur*).

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* Speaker has no party affiliation.

A. D. Bili Gowda (Cong.), (*Maddur*); R. Chikkiah (Cong.), (*Madhugiri*); H. G. Channappa (Ind.), (*Magadi*); M. Mallikarjunaswamy (Cong.), (*Malavalli–S.C.*); M.S. Krishnan (C.P.I.), (*Malleswaram*); A. V. Muniswamy (Cong.), (*Malur*); M. H. Boraiah (Cong.), (*Mandya*); Mrs. Addy Saldanha (Cong.), (*Mangalore–I*); U. T. Fareed (Cong.), (*Mangalore—II*); B. Narasappa (Cong.), (*Manvi*); A. M. Belliappa (Cong.), (*Mercara*); Papnaik Patel (Cong.), (*Molakalmuru*); Damodar Moolki (Cong.), (*Mudabidri*); M. M. Sajjan (Cong.), (*Muddebihal*); K. P. Nadagouda (Cong.), (*Mudhol*); G. Puttaswamy (Cong.), (*Mudigere-S.C.*); P. Muniyappa (Ind.), (*Mulbagal–S.C.*); K. H. Kuradagi (Cong.), (*Mundargi*); H. T. Krishnappa (Cong.-O), (*Nagamangala*); K. B. Shivaiah (Cong.), (*Nanjangud*); Aziz Sait (Cong.), (*Narasimharaja*); J. Y. Venkatappa (Cong.), (*Nargund–S.C.*); M. K. Kulkarni (Cong.-O), (*Navalgund*); H. Mare Gowda (Ind.), (*Nelamangala*); R. V. Kadam (Cong.), (*Nipani*); D. Halage Gowda (Cong.), (*Pandavapura*); S. B. Padaki (Cong.), (*Parasgad*); K. R. Thimmarayappa (Cong.), (*Pavagada–S.C.*); H. M. Chennabasappa (Cong.), (*Periyapatna*); A. Shankar Alva (Cong.), (*Puttur*).

V. L. Patil (Cong.), (*Raibagh*); N. A. Siddiqui (Cong.), (*Raichur*); B. Puttaswamaiah (Cong.-O), (*Ramanagaram*); R. S. Patil (Cong.), (*Ramdurg*); K. B. Koliwad (Cong.), (*Ranibennur*); A. V. Patil (Cong.), (*Ron*); J. S. Ammannavar (Cong.), (*Sadalga*); Kagodu Thimmappa (Soc.), (*Sagar*); K. M. Rudrappa (Cong.), (*Sakalespur*); M. Y. Ghorpade (Cong.), (*Sandur*); Appanna Gowda Patil (Cong.-O), (*Sankeshwar*); K. Siddiah (Cong.), (*Santhemarahalli—S.C.*); H. Puttadasa (Cong.), (*Sathanur—S.C.*); J. P. Sarvesh (Cong.), (*Serum—S.C.*); Bapugouda Rayappa (Cong.—O), (*Shahapur*); K. R. Sreenivasulu Naidu (Cong.), (*Shanthinagar*); M. K. M. Nadaf (Cong.), (*Shiggaon*); K. Yenkatappa (Cong.), (*Shikaripur*); A. R. Badrinarayan Iyengar (Cong.), (*Shimoga*); V. V. Wai (Cong.), (*Shirahatti*); S. Hameed Shah (Cong.), (*Shivajinagar*); Rajapid Naik (Ind.), (*Shorapur*); H. C. Sreekantaiah (Cong.), *Shravanabelagola*); J. Venkatappa (Cong.), (*Siddlaghatta*); S. Y. Patil (Cong.—O), (*Sindgi*); B. R. Basan Gouda (Cong.), (*Sindhanoor*); B. Puttakamiah (Cong.), (*Sira*); M. H. Jaya Prakash Narayan (Cong.), (*Sirsi—S.C.*); B. E. Ramaih (Cong.), (*Siruguppa*); R. Gundu Rao (Cong.), (*Somvarpet*); S. Bangarappa (Ind.), (*Sorab*); K. N. Veerappa Gowda (Cong.), (*Sringeri*); Vacant, (*Srinivasapur*); Smt. Damyanthi Bore Gowda (Cong.), (*Srirangapatna*); P. D. Bangera (Cong.), (*Sullya–S.C.*); B. Subbayya Shetty (Cong.), (*Surathkal*).

M. Rajasekhara Murthy (Cong.-O), (*T. Narasipura*); Hanji Shivanna (Cong.), (*Tarikere*); Konandur Lingappa (Soc.), (*Thirthahalli*); G. N. Patil (Cong.-O), (*Tikota*); T. M. Manjunath (Cong.-O), (*Tiptur*); K. Abdul Suban (Cong.), (*Tumkur*); B. Byrappaji (Cong.), (*Turuvekere*); P. A. Pawashe (Ind.), (*Uchagaon*); Mrs. Manorama Madhvaraj (Cong.), (*Udipi*); B. Basavalingappa (Cong.), (*Uttarahalli–S.C.*); K. Prabhakar (Cong.), (*Varthur–S.C.*); C. Byre Gowda (C.P.M.), (*Vemgal*); G. K. Subbiah (Cong.), (*Virajpet—S.T.*); Vishwanath Reddy (Ind.), (*Yadgir*); A. M. Suryanarayana Gowda (Cong.), (*Yelahanka*); Prabhu Raj Lingangouda (Cong.), (*Yelburga*); Smt. Sheila Irani (Ind.), (*Nominated*).

KARNATAKA LEGISLATIVE COUNCIL

Chairman : M. V. Venkatappa ; *Dy. Chairman :* Vacant ; *Leader of the House :* N. H. Gowda ; *Secretary :* Te Hanumanthappa.

Party position : Cong. : 32 ; Cong.–O 21 ; Independents 4 ; J.S. 6 ; Total 63. Women members 4.

Elected by the Legislative Assembly (21) : D. Rajagopal† (Cong.); H. M. Ismail Tabish‡ (Cong.); H. T. Reddy‡ (Cong.); Jathappa Rai† (Cong.–O); Jivaraj Hirachand Shah† (Cong.–O); K. Rangappa‡ (Cong.); M. C. Perumal‡ (Cong.); M. V. Venkatappa‡ (Cong.); N. Rachiah† (Cong.); P. Venkataramana† (Cong.); Ramakrishna Hegde‡ (Cong.–O); S. C. Kubasad† (Cong.–O); S. M. Krishna‡ (Cong.); T. N. Narasimhamurthy† (Ind.); Smt. Sarojini Thimme Gowda* (Cong.–O); F. M. Khan* (Cong.); Kalyan Rao M. Maragutty* (Cong.); R. G. Jagirdar* (Cong.); S. Sivappa* (Cong.); B. V. Narayan* (Cong.); N. N. Kallannanan Ningappa* (Cong.).

Local Authorities' Constituency (21) : J. Srinivas Reddy* (Cong.), (*Bangalore*); B. J. Linge Gowda† (Cong.—O), (*Bangalore*); V. M. Katti* (Cong.—O), (*Belgaum*); Bolashetti Baburao Annappa‡ (Cong.—O), (*Belgaum*); K. Channabasavanagouda† (Cong.—O), (*Bellary*); N. M. Kheny* (Cong.), (*Bidar*); P. M. Nadagouda‡ (Cong.—O), (*Bijapur*); Channaiah Odeyar* (Cong.), (*Chitradurga*); P. T. Desai* (Cong.), (*Dharwar*); S. R. Bommai‡ (Cong.—O), (*Dharwar*); Revanasiddappa† (Cong.—O), (*Gulbarga*); L. T. Karle‡ (Cong.), (*Hassan*); N. M. Jali Satgi (Cong.—O), (*Karwar*); M. C. Anjaneya Reddy* (Cong.), (*Kolar*); M. V. Venkatappa‡ (Cong.), (*Mandya*); M. C. Basappa† (Cong.—O), (*Mysore-cum-Coorg*); D. Jayadevaraj Urs† (Cong.), (*Mysore cum Coorg*); R. S. Bhagwat* (Cong.–O), (*North Kanara*); K. Rajasekharappa† (Cong.–O), (*Raichur*); B. S. Vishwanathan† (Cong.), (*Shimoga-cum-Chickmagalur*); B. Narayana Nayak‡ (Cong.), (*South Kanara*); A. S. Nandesh† (Cong.—O), (*Tumkur*).

Graduates Constituency (6) : G. S. Ullal† (Ind.), (*Bangalore*); V. S. Krishna Iyer† (Cong. O.), (*Bangalore*); Y. S. Patil‡ (J.S.), (*Mysore Central*); B. K. Gudadinni@ (Cong.–O), (*Mysore North*); S. Mallikrajuniah‡ (J.S.), (*Mysore South-East*); A. K. Subbaiah@ (J.S.), (*Mysore South-West*).

Teachers' Constituency (6) : S I Shettar@ (Cong.–O), (*Mysore North-Central*); B. S. Ganachari‡ (Cong.), (*Mysore North-East*); G. K. Kulkarni@ (J.S.), (*Mysore South-West*); Mallur Ananda Rao† (Ind.), (*Mysore South-Central*); Smt. Padmavathi Vittal Rao‡ (J.S.), (*Mysore South-East*); M. Satyanarayana Rao† (Ind.), (*Mysore South-West*).

Nominated (9) : Abdul Gaffar Husain Sab† (Cong.); Govind P. Vadevaraj† (Cong.–O); M. V. Rama Rao‡ (Ind.); Smt. Praveen C. Kamalani‡ (Cong.); Shantamallappa Patil‡ (Cong.); T. V. Venkataswamy† (Cong.–O); H. T. Sasnur* (Cong.); A. Masana Chetty* (Cong.); Smt. Octavia Albuquerque* (Cong.).

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* Retiring on 14th May 1980 ; @ Retiring on 30th June 1980;

† Retiring on 11th June 1976 ; ‡ Retiring on 30th June 1978.

KERALA LEGISLATIVE ASSEMBLY

Speaker : Vacant ; *Deputy Speaker :* R. S. Unni.

Seats : 134 ; No. of women : 2. *Party Position :* Cong. 35 (including one nominated member) ; C.P.I. (M) 31 ; C.P.I. 16 ; K. Cong. 13 ; Muslim League 11 ; S.P. 7 ; R.S.P. 6 ; Cong. (O) 3; Kerala S.P. 2; Karshaka Thoshilali Party 2; Independents 5; Kerala Cong. (O) 2; Vacant 3.

Thengamom Balakrishnan (C.P.I.), (*Adoor*) ; J. A. Chacko (K. Cong. O). (*Abulakunuam*) ; R. Krishnan (C.P.I. M.), (*Alathur*) ; T. V. Thomas (C.P.I.), (*Alleppey*) ; A. A. Kochunny (Cong.), (*Alwaye*) ; V. S. Achuthanandan (C.P.I.M.), (*Ambalapusha*) ; A. P. Kurian (C.P.I.-M.), (*Ankamali*) ; P. N. Chandrasenan (C.P.I.-M), (*Aranmula*) ; Smt. K. R. Gouri (C.P.I.-M), (*Aroor*) ; K. Somasekharan Nair (S.P.), (*Ariyanad*) ; Vakkom Purushothaman (Cong.), (*Attingal*) ; M. Krishnan (S.P.), (*Badagara*) ; A. C. Shanmukhadas (Cong.), (*Balusseri*) ; K. Chathunni Master (C.P.I.-M), (*Beypore*).

P. V. Shankaranarayanan (Cong.), (*Calicut I*) ; K. Madhava Menon (Cong. O), (*Calicut II*) ; N. K. Kumaran (Cong. O), (*Cannaners*) ; M. N. Govindan Nair (C.P.I.), (*Chadayamangalam*) ; P. P. George (Cong.), (*Chalakudy*) ; K. J. Chacko (K. Cong.), (*Changanacherry*) ; K. K. Balakrishnan (Cong.), (*Chelakkara—S.C.*) ; P. Ravindran (C.P.I.), (*Chathanur*) ; P. G. Purushothaman Pillai (C.P.I.-M), (*Chengannur*) ; K. A. Sivarama Bharathy (S.P.), (*Chittoor*) ; E. Gopalakrishna Menon (C.P.I.), (*Cranganore*); G. Varadan (C.P.I.-M), (*Devicolom—S.C.*).

N. Ramakrishnan (Cong.), (*Edakkad*) ; R. S. Unni (R.S.P.), (*Eravipuram*) ; A. L. Jacob (Cong.), (*Ernakulam*) ; P. B. R. Pillai (S.P.), (*Ettumanoor*) ; Varkey Vadakkan (K.T.P.), (*Guruvayoor*) ; C. B. C. Warrier (C.P.I.-M) (*Haripad*); N. K. Balakrishnan (Ind.), (*Hosdurg*); E. K. Nayanar (C.P.I.-M), (*Irikkur*); C. S. Gangadharan (K.S.P.), (*Irrijalakuda*).

O. Lukose (K. Cong.), (*Kaduthuruthy*) ; T. S. John (K. Cong.), (*Kalloopara*) ; P. Cyriac John (Cong.), (*Kalpetta*) ; K. V. Kurian (K. Cong.), (*Kanjirapally*) ; A. C. Chacko (K. Cong.), (*Karimannoor*) ; Baby John (R.S.P.), (*Karunagapally*) ; B. M. Abdul Rahiman (M.L.), (*Kasargod*) ; T. Kunjukrishna Pillai (Cong.), (*Kayambulum*) ; P. Neelakantan (S.P.), (*Kazhakuttam*) ; P. K. Chathan Master (C.P.I.), (*Kilimanoor—S.C.*) ; C. Achutha Menon (C.P.I.), (*Kodakara*) ; C. Vasudeva Menon (C.P.I.-M.), (*Kollengode*) ; M. P. M. Abdulla Kurukkal (M.L.), (*Kondotty*) ; P. J. Thomas (Cong.), (*Konni*) ; M. I. Markose (K. Cong.), (*Kothamangalam*) ; Kottara Gopalakrishnan (Cong.), (*Kottardkara*) ; M. Thomas (C.P.I.-M.), (*Kottayam*) ; M. Kunjukrishnan Nadar (Cong.), (*Kovalam*) ; P. Unnikrishna Pillai (C.P.I.), (*Krishnapuram*) ; A. A. Rahim (Cong.), (*Kundara*) ; Vacant (*Kunnamangalam*), T. K. Krishnan (C.P.I.-M.), (*Kunnamkulam*), T. A. Paraman (R.S.P.), *Kunnathanal—S.C.*); Sathvapalan (R.S.P.), (*Kunthur—S.C.*) ; Pinarayi Vijayan (C.P.I.-M.), (*Kuthuparamba*), Thalavatty Oommen (S.P.), (*Kuttanad*), Chakkeeri Ahmedkutty (M.L.), (*Kuttipuran*); P. Kunhan (C.P,I.-M.), (*Kuchamanam—S.C.*).

M. V. Raghavan (C.P.I.-M.), (*Madayi*) ; K. Karunakaran (Cong.), (*Mala*) ; V. Krishna Das (C.P.I.-M.), (*Malampuzha*) ; U. A. Beeran (M.L.), (*Malappuram*) ; N. I. Devassykutty (Cong.), (*Manalur*) ; K. P. Raman (M.L.), (*Manjeri — S.C.*); M. Ramappa (C.P.I.), (*Manjeshwar*) ; M. Moideenkutty Haji (M.L.), (*Mankada*) ; John Manjooran (K.S.P.), (*Mannarghat*) ; S. Damodaran (C.P.I.-M.), (*Mararikulam*) ; K. J. Herschel (Cong. O.), (*Mattancherry*) ; G. Gopinathan Pillai (Ind.), (*Mavelikkara*) ; A. V. Abdurahiman (M.L.), (*Meppayur*) ; Smt. Pennamma Jacob (Ind.), (*Muvattupuzha*).

M. Kumaran (C.P.I.), (*Nadapuram*) ; M. K. Raghavan (Cong.), (*Narakkal*) ; V. K. Gopinathan (S.P.), (*Nattika*) ; K. G. Kunjukrishna Pillai (C.P.I.), (*Nedumangad*) ; T. K. Chandan (C.P.I.-M.), (*Neeleswaram*); Vacant (Nemom), R. Parameswaran Pillai (C.P.I -M.), (*Neyyattinkara*) ; M. P. Gangadharan (Cong.), (*Nilambur*) ; P. R. Francis (Cong.), (*Ollur*) ; P. P. Krishnan (C.P.I.-M.), (*Ottappalam*) ; K. M. Mani (K. Cong.), (*Palai*) ; R. Krishnan (C.P.I.-M.), (*Palghat*) ; B. Wellingdon (K.T.P.). (*Palluruthy*) ; Damodaran Kalassery (Cong.), (*Pandalam—S.C.*) ; M. Sathyanesan (C.P.I.-M.), (*Parassala*) ; Varkey Painadan (C.P.I.-M.), (*Parur*) ; K. K. Nair (C.P.I.-M.), (*Pathanamthitta*) ; P. K. Raghavan (C.P.I.), (*Pathanapuram—S.C.*) ; E. M. S. Namboodiripad (C.P.I.-M.), (*Pattambi*) ; A. V. Kunhambu (C.P.I.-M.), (*Payyanur*) ; Vacant (*Peermade—S.C.*) ; Dr. K. G. Adiyodi (Cong.), (*Perumbra*); K. M. Soopi (Cong.), (*Peringalam*) ; K. K. S. Thangal (M.L.), (*Perinthalamanna*); P. I. Poulose (Cong.), (*Perunibavoor*); Haji M. V. Hydros (Ind.), (*Ponnani*); K. M. George (K. Cong), (*Poonjur*); K. Krishan Pillai (C.P.I.), (*Punalur*); Oommen Chandy (Cong.), (*Puthupally*).

E. Narayanan Nair (Cong.), (*Quilandy*) ; T. K. Divakaran (R.S.P.), (*Quilon*) ; Jacob Scariah (C.P.I.-M.), (*Ranni*) ; A. K. Anthony (Cong.), (*Sherthalai*) ; C. Govinda Panicker (C.P.I.-M.), (*Sreekrishnapuram*) ; C. P. Govindan Nambiar (Cong.), (*Taliparamba*) ; Sayed Ummer Bhafaki (M.L.), (*Tanur*) ; N. E. Balaram (C.P.I.), (*Tellicherry*) ; Avukaderkutty Naha (M.L.), *Thirurangadi*); P. J. Joseph (K. Cong.), (*Thodupuzha*) ; K. Moideenkutty Haji (M.L.), (*Tirur*) ; P. A. Anthony (Cong.), (*Trichur*) ; Paul P. Mani (Cong.), (*Trippunithura*) ; V. Eacharan (Cong.), (*Trithala—S.C.*) ; A. N. Gopala Pillai (Ind.), (*Trivandrum I*) ; K. Pankajakshan (R.S.P.), (*Trivandrum II*).

Sebastian Thomas (K. Cong.), (*Udumbanchola*) ; A. S. N. Nambissan (C.P.I.-M.), (*Vadakkancherry*) ; Balanandan (C.P.I.-M.), (*Vadakkekara*) ; P. S. Sreenivasan (C.P.I.), (Vaikom) ; M. Kunjukrishna Pillai (Cong.), (*Vamanapuram*) ; T. A. Majid (C.P.I.), (*Varkala*) ; K. Narayana Kurup (K. Cong.), (*Vazhoor*) ; S. Varadarajan Nair (Cong.), (*Vilappil*) ; M. V. Rajan (Cong.), (*Wynad-North—S.T.*) ; K. Raghavan Master (Cong.), (*Wynad-South—S.T.*) ; Stephen Padua (Cong.), (*Nominated*).

MADHYA PRADESH LEGISLATIVE ASSEMBLY

Speaker : Gulsher Ahmed ; *Dy. Speaker :* Narayan Prasad Shukla.

Seats : 296 ; *Electorate :* 20,842,129 ; *Votes Polled :* 11,350,437 ; *Party Position :* Congress : 229 ; Jan Sangh : 45 ; Socialist Party : 4 ; Communist Party : 5 ; Independents : 9 ; Nominated : 1 ; Vacant : 2 ; Women members : 8.

Chetram Parshottam (J. S.), (*Abhanpur*) ; Madhukar Marmat (Cong.), (*Agar—S.C.*) ; Rajendra Kumar Singh (Cong.), (*Akaltara*) ; Magansingh Patel (Cong.), (*Alirajpur—S.T.*) ; Smt. Leela Devi Choudhari (Cong.), (*Alot—S.C.*) ; Tatulal (Cong.), (*Amanganj—S.C.*) ; Gulsher Ahmed (Cong.), (*Amarpatan*) ; Udaybhanu Shah (Cong.), (*Amarwara—S.T.*) ; Rajaram Singh (Cong.), (*Ambah—S.C.*) ;

Devendra Kumari (Cong.), (*Ambikapur*); Babusingh Gulab Singh Solanki* (J. S.), (*Anjad*); Kanhaiya Lal Kossaria (Cong.), (*Arang—S.C.*); Mahendra Singh (J.S.), (*Ashoknagar*); Umrao Singh Dariyav Singh (Cong.), (*Ashta—S.C.*); Rameshwar Dayal Arele (Cong.), (*Attair*).

N. V. Raman (Cong.), (*Badwara*); Chiranjilal (Cong.), (*Badnawar*); Narhari Prasad Sai (J. S.), (*Bagicha—S.T.*); Kailashchandra U. Joshi (J. S.), (*Bagli*); Kunjbiharilal Agnihotri (Cong.), (*Bahoriband*); Sudhanwasingh M. Netam (J.S.), (*Baihar—S.T.*); Ramchandrasingh Deo (Cong.), (*Baikunthpur*); Lakshminarayan Sharma (J. S.), (*Bairagarh*); Mohansingh Marawi (Cong.), (*Bajag—S.T.*); Jhitruram (Cong.), (*Bakawand—S.T.*); Nandkishore Sharma (Cong.), (*Balaghat*); Hira Lal Sonboir (Cong.), (*Balod*); Radhe Shyam Shukla (Cong.), (*Baloda*); Dolatram Ramdayal (Cong.), (*Baloda Bazar*); Shrikrishan Selat (Cong.), (*Banda*); Jasvant Singh (Cong.), (*Barelli*); Jageshwar N. Bisen (J. S.), (*Barghat*); Nathu Singh (Cong.), (*Bargi*); Abhaya Singh (Cong.), (*Barnagar*); Amolakchand Chajed (Cong.), (*Barwaha*); Umraosingh Parvatsingh (J. S.), (*Barwani—S.T.*); Sitaram (J. S.), (*Basoda—S.C.*); Laxman J. Satpathi (Cong.), (*Basana*); Laxman Prasad Vaidya (Cong.), (*Bemetara*); Ramgopal Gupta (J. S.), (*Beohari*); Gauri Shankar Kaushal (J. S.), (*Berasia*); Maroti Narayan Rao (Cong.), (*Betul*); Kaliya Singh Balaji (Cong.), (*Bhainsdehi—S.T.*); Satya Narayan Singh (Cong.), (*Bhanupratappur—S.T.*); Chaturbhuj Morya (J. S.), (*Bhander—S.C.*); Shivlal Mehta (Cong.), (*Bhatapara*); Kejuram (Ind.), (*Bhatagaon*); R. L. Tikaramh (Cong.), (*Bhatagaon—S.T.*); Rana Baltahadur Singh (Cong.), (*Bhikangaon*); Phool Chand (Cong.), (*Bhilai*); Navinchandra Bhuta (Cong.), (*Bhind*); Gulab Chand (Cong.), (*Bhojpur*); Shakir Alikhan (C.P.I.), (*Bhopal City*); Ramkaran Ugra (Cong.), (*Biaora*); Darbarsingh (Cong.), (*Bichhiya—S.T.*); Surti Kistaiya (Cong.), (*Bijapur*); Jagmohansingh (J. S.), (*Bijeypur*); Yodavendra Singh *alias* Lalloo Raja (Cong.), (*Bijawar*); Shridhar Mishra (Cong.), (*Bilaspur*); Chitra Kant Jaiswal (Cong.), (*Bilha*); Dalchand Bhagwandas (Cong.), (*Bina*); Smt. Parvati Kumari (Cong.), (*Bindranawagar—S.T.*); Devi Prasad Choube (Cong.), (*Birendranagar*); Agarwal Laxminarayan Khajanchi (Cong.), (*Bohani*); Shaligram Srivastava (Ind.), (*Budhni*); Brijmohan Dwarkaprasad Mishra (J. S.), (*Burhanpur*).

Krishna Vallabh Gupta (J. S.), (*Chachaura*); Bishahu Das Mahant (Cong.), (*Champa*); Bhawani Lal (Cong.), (*Chandrapur*); L. N. Sharma (Cong.), (*Chaurai*); Satendra Singh Thakur (Cong.), (*Chhapara*); Mahindra Kumar Manav (Cong.), (*Chhatarpur*); Devilal Sharma (Cong.), (*Chhindwara*); Rama Konda (Cong.), (*Chitrakote—S.T.*); Ram Chandra Bajpayee (Cong.), (*Chitrakut*); Gobardhan (Cong.), (*Chowki—S.T.*); Shyamlal Ujiyar (J. S.), (*Chughari—S.T.*); Chandra Pratap Tiwari (Cong.), (*Churahat*).

Pahad Singh (Cong.), (*Dabra*); Prabhu Narayan Tangon (Cong.), (*Damoh*); Miss Gyanda Devi (Cong.), (*Damua—S.T.*); Lakshman Karma (Cong.), (*Dantewara—S.T.*); Gulabchand Kannoo Lal (J.S.), (*Datia*); Vinaykumar Diwan (Cong.), (*Denwa*); Balraj Singh (Cong.), (*Deosar—S.T.*); Ram Khelawan (Cong.), (*Deotalab*); Ramchandra Agarwal (Cong.), (*Depalpur*); Dwarkaprasad Katare (Cong.), (*Dewari*); Dhirajsingh Mohansingh (Cong.), (*Dewas*); Dr. Tuman Lal (Cong.), (*Dhamdha—S.C.*); Kesrimlal (Cong.), (*Dhamtari*); Surendra Singh Nimkhera (Cong.), (*Dhar*); Vaidya Begraj Sharma Cong.), (*Dharmajaigarh*); Phatebhansingh Ramsingh (Cong.), (*Dharampuri—S.T.*); Munnalal Shukla (Cong.), (*Dharsiwan*); Sobhag Singh (Cong.), (*Dhoolkot—S.T.*); Chhawi Ram Argal (J.S.), (*Dimini—S.C.*); Sundarlal Uraiti (Cong.), (*Dindori—S.T.*); Jhumuklal Bhedia (Cong.), (*Dondilohara—S.T.*); S. Jairam Ayyar (Cong.), (*Dongargaon*); Hairaram Ramsevak (Cong.), (*Dongargarh*); Moti Lal (Cong.), (*Durg*).

Harishankar Sthapak (Cong.), (*Godarwara*); Kasturchand Chaudhary (Cong.), (*Garoth*); Surendra Kumar Singh (Cong.), (*Garghoda—S.T.*); Bishram Singh Mawase (Cong.), (*Ghoradongri—S.T.*); Shyamlal Ujiyat (J. S.), (*Ghugari—S.T.*); Balkrishna Sharma (C.P.I.), (*Gird*); Smt. Jagwa (Cong.), (*Gobadbanas*); Bhure Lal (J. S.), (*Gohad—S.C.*); Narsinghdas (Cong.), (*Gotegaon*); Babulal Gaur (Ind.), (*Govindpura*); Ramesh Dube (Cong.), (*Gulana*); Shiv Pratap Singh (J. S.), (*Guna*); Ganaram Sahu (Ind.), (*Gunderdehi*); Ram Pal Singh (Cong.), (*Gurh*); Ramchand Sarvate (C.P.I.), (*Gwalior*).

Nanhelal Patel (Cong.), (*Harda*); Kali Charan Sakargayen (Cong.), (*Harsud*); Kunjbihari Lal Manmohan Lal (Cong.), (*Hatta*); Mrs. Sushila Dixit (Cong.), (*Hoshangabad*); Mahesh Joshi (Cong.), (*Indore City I*); Homi F. Daji (C.P.I.), (*Indore City II*); Chandra Prabhas (Cong.), (*Indore City III*); Narayan Prasad (Cong.), (*Indore City IV*); Hari Prasad Chaturvedi (Cong.), (*Itarsi*).

Dinesh Mishra (Cong.), (*Jabalpur Cantt.*); Krishnawtar Bhanot (Cong.), (*Jabalpur-East*); Savaimal Jain (Cong.), (*Jabalpur-West*); Baliram Kashyap (J. S.), (*Jagdalpur—S.T.*); Kamla Prasad Singh (Cong.), (*Jaisinghnagar—S.T.*); Bhagwan Din (Cong.), (*Jaitpur—S.T.*); Bankatlal Todi (Cong.), (*Jaora*); Niranjan Prasad Kesarwani (J.S.), (*Jarhagaon*); Luis Beg (Cong.), (*Jashpar—S.T.*); Ramkrishna Mishra (Cong.), (*Jatara*); Kanhaiyalal Nagauri (Cong.), (*Jawad*); Ganga Bai (Cong.), (*Jhabua—S.T.*); Ajhmer Singh (Cong.), (*Jobat—S.T.*); Ramacharanlal Mishra (Cong.), (*Joura*).

Vishram Dhogaye (Cong.), (*Kanker—S.T.*); Hardas Gupta (J. S.), (*Karera*); Kanhaiya Lal Sharma (Cong.), (*Kasdol*); Satyendra P. Mishra (Cong.), (*Katangi*); Chitor Singh (Cong.), (*Katangi*); Bodhram (Cong.), (*Katghora*); Kumar Yeshwantraj Singh (Ind.), (*Kawardha*); Mrs. Vimla K. Verma (Cong.), (*Keolari*); Gangaram Rana (Cong.), (*Keskal—S.T.*); Kunwar Virendrasingh (Cong.), (*Khacharod*); Vijayalal Oswal (Cong.), (*Khairagarh*); Madhusudan Gautam (Cong.), (*Khairalangi*); Ganga Charan Mishra (Cong.), (*Khandwa*); Mrs. Chandrakanta Ramkant Khode (Cong.), (*Khargaone*); Baiju Ahirvar (Cong.), (*Kharagpur—S.C.*); Hindu Singh Parmar (J.S.), (*Khategaon*); Prabhudayal Choube (Cong.), (*Khilchipur*); Baldev Prasad Mishra (Cong.), (*Khujji*); Liladhar (Cong.), (*Khurai—S.C.*); Jhankar Singh (Cong.), (*Kirnapur*); Jagdish Prasad Verma (J.S.), (*Kolaras*); Mankuram Sodi (Cong.), (*Koondagaon—S.T.*); Jogaya Mooka (Cong.), (*Konta—S.T.*); Madhura Prasad Dubey (Cong.), (*Kota*); Mrigendra Singh (Cong.), (*Kotma*); Pratap Singh Baghel (Cong.), (*Kukshi—S.T.*); Yeshwantrao Meghawale (J. S.), (*Kurud*); Awadhnarayan (J. S.), (*Kurwai*).

Raghavram Chaudhury (Cong.), (*Lahar*); Basant Rao Unikey (Cong.), (*Lakhandon—S.T.*); Rameshwari Prasad (Cong.), (*Lakhanpur*); N. P. Srivastava (Ind.), (*Lanji*); Sitla Sahai (J.S.), (*Lashkar*); Vacant (*Laund*); Rajendra Prasad Shukla (Cong.), (*Lormi*); Chamruram (Cong.), (*Lundra—S.T.*).

Nathu Ram Ahirwar (J.S.), (*Maharajpur*); Purushottamlal Kaushik (Soc.), (*Mahasamund*); Sitaram Sadhuram (Cong.), (*Maheswar—S.C.*); Narayanprasad Sharma (Cong.), (*Mahidpur*); Lalji Patel (Cong.), (*Maihar*); Dashrath Jain (Cong.), (*Malehra*); Puranlal Jangde (Cong.), (*Malkharoda—S.C.*); Surajbhai Tugnawat (Cong.), (*Manasa*); Shivbhanu Solanki (Cong.), (*Manawar*); Smt. Narayani Devi Jha (Cong.), (*Mandla*); Shyamasunder Patidar (Cong.), (*Mandsaur*); Dharampal Singh (Cong.), (*Manendragarh—S.T.*); Srinivas Tiwari (Cong.), (*Mangawan*); Kisanlal Kurre (Cong.), (*Maro—S.C.*);

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* Has resigned from the Jana Sangh.

Bhavar Singh Porte (Cong.), (*Marwahi—S.T.*); Ramji Chhitraya Mahajan (Cong.), (*Masod*); Godil Prasad Anuragi (Cong.), (*Masturi—S.C.*); Ramdhani Mishra (Ind.), (*Mauganj*); Rameshwar Dayal Dantre (Soc.), (*Mehgaon*); Bherulal Patidar (J.S.), (*Mhow-Rural*); Rajendra Singh (Cong.), (*Morar*); Maharaj Singh (J.S.), (*Morena*); Rao Gajramsingh (J.S.), (*Mungaoli*); Ganeshram Anant (Cong.), (*Mungeli—S.C.*); Radhakrishna Garg Vakeel (Ind.), (*Multai*); Lakhansingh Solanki (Cong.), (*Murwara*).

Bala Prasad (Cong.), (*Nagod—S.C.*); Ratiram (Cong.), (*Narayanpur—S.T.*); Mangilal Bhandari (Cong.), (*Narsingharh*); Shyam Sunder Narayan Mushran (Cong.), (*Narsinghpur*); Jagannath Singh (Cong.), (*Nawrojabad—S.T.*); Raghunandan Prasad (Cong.), (*Neemuch*); Vacant (*Nirmarkhedi*); Laxminarayan Nayak (Soc.), (*Niwari*); Anoopsingh Marawi (J.S.), (*Niwas—S.T.*); Thakur Neeknarayan Singh (Cong.), (*Nohata*).

Deosai Maravi (Cong.), (*Pal—S.T.*); Phool Singh (Cong.), (*Palari—S.C.*); Vacant (*Pamgarh*); Girwar Singh Patel (Cong.), (*Panagar*); Sakharam Nilkanth (J.S.), (*Pandhana—S.C.*); Madhavlal Dubey (Cong.), (*Pandhurna*); Hetram Dube (Cong.), (*Panna*); Barik Rao Amritrao (Cong.), (*Parasia—S.C.*); Tejlal Tembhre (Cong.), (*Paraswada*); Motilal Sonkar (Cong.), (*Patna—S.C.*); Laljit Singh (J.S.), (*Pathalgaon—S.T.*); Gopaldas Munnilal (Cong.), (*Patharia—S.C.*); Jagdish Singh (Cong.), (*Pawai*); Dileep Singh Bhuriya (Cong.), (*Petlawad—S.T.*); Bhanupratap Singh (Cong.), (*Petlawad—S.T.*); Bhanupratap Singh (Cong.), (*Pichhore*); Mrs. Ratan Kumari Devi (Cong.), (*Piparia*); Thakur Bhanu Pratap Singh (Cong.), (*Pithaura*); Babulal Arjun (J.S.), (*Pohri—S.C.*); Bhuvneshwar (J.S.), (*Premnagar—S.T.*); Dalbirsingh (Cong.), (*Pushprajgarh—S.T.*); Miss Kamla Devi (Cong.), (*Passaur*).

Harlal Shakyavar (J. S.), (*Raghogarh—S.C.*); Ram Kumar Agarwal (Cong.), (*Raigarh*); Sudhir Mukherjee (C.P.I.), (*Raipur*); Gulabsingh (Cong.), (*Rajgarh*); Shyamacharan Shukla (Cong.), (*Rajim*); Kishorilal Shukla (Cong.), (*Rajnandgaon*); Barkoo Mahadu Chauhan (Cong.), (*Rajpur—S.T.*); Pyarelal Seoprasad (Cong.), (*Rampur—S.T.*); Toshan Singh (Cong.), (*Rampurbaghelan*); Akbarali Arif (Cong.), (*Ratlam*); Gaurishankar Pathak (Cong.), (*Rehli*); Muni Prasad Shukla (Cong.), (*Rewa*); Rasalsingh (J. S.), (*Ron*).

Raghuvar Dayal Rasoiya (Cong.), (*Sabalgarh*); Jwala Prasad Jotishi (Cong.), (*Sagar*); Prabhudayal Gehlot (Cong.), (*Sailana—S.T.*); Pushpendra Nath Singh (Ind.), (*Sakti*); Larangsai (J.S.), (*Samai—S.T.*); Larangsai (J.S.), (*Samri—S.C.*); Duli Chand (Cong.), (*Sanchi—S.C.*); Virendra Bahadur Singh Lal Bahadur (Cong.), (*Saraipali*); Sheoprasad Nagotia (Cong.), (*Saramgarh—S.C.*); Sajjan Singh Vishnar (Cong.), (*Sarangpur—S.C.*); Baboosingh Alawa (Cong.), (*Sardarpur—S.T.*); Smt. Kanta Parekh (Cong.), (*Satna*); Manik Rao Narayan Rao (Cong.), (*Saunsar*); Radha Kishan Malviya (Cong.), (*Sawer—S.C.*); Aziz Qureshi (Cong.), (*Sehore*); Shobha Ram Patel (Cong.), (*Sendhwa—S.T.*); Nitendranath Sheel (Cong.), (*Seoni*); Shivcharan Pathak (Cong.), (*Seondha*); Shivkumar Singh Navalsingh (Cong.), (*Shahpur*); Mrs. Tara Prabhagchandra Sharma (Cong.), (*Shajapur*); Lokendra Singh (J.S.), (*Sheopur*); Sushil Bahadur Ashthana (J. S.), (*Shivpuri*); Rameshwardayal Sharma (Cong.), (*Shujalpur*); Arjun Singh (Cong.), (*Sidhi*); Pusauram (Cong.), (*Sihawa—S.T.*); Parmanandbhai (Cong.), (*Sihora*); Shyam Kartik Ram (Cong.), (*Singrauli*); Rajmani Patel (Cong.), (*Sirmaur*); Inayat Ullaha Khan Tarji Mashrikhi (Cong.), (*Sironj*); Dhansukhlal Bhachawat (Cong.), (*Sitamau*); Sukhiram (Cong.), (*Sitapur—S.T.*); Krishnapal Singh (Cong.), (*Sohagpur*); Bapoolal Kishanlal (Cong.), (*Sonkatch—S.C.*); Dhirendranath (Cong.), (*Sarajpur*); Gayaprasad Kabeer Panthi (Cong.), (*Surkhi—S.C.*); Haribhau Joshi (J. S.), (*Susner*); Ramgopal Bhartiya (Cong.), (*Suvasra—S.C.*).

Rohini Kumar (Cong.), (*Takhatpur*); Lalkirti Kumar Singh (Ind.), (*Tandkhar—S.T.*); Dineshwar Sai (Cong.), (*Tapkara—S.T.*); Laxminarayan Jain (Cong.), (*Tarana*); Triveni Prasad (J. S.), (*Teonthar*); Manna (Soc.), (*Thandla—S.T.*); Sardar Singh (Cong.), (*Tikamgarh*); Khee Prasad Bastwar (Cong.), (*Timrani—S.C.*).

Gautam Sharma (Cong.), (*Udaipura*); Prakash Chand Sethi (Cong.), (*Ujjain-North*); Durgadas Suryavanshi (Cong.), (*Ujjain South*); Ranvijay Pratap Singh (Cong.), (*Umaria*); Suryaprakash (Cong.), (*Vidisha*); Ramrani Jauhar (Cong.), (*Vijay Raghogarh*); Than Singh Bisen (Cong.), (*Waraseoni*); Col. Miss Florence St. Clair Watkins (Nominated).

MAHARASHTRA LEGISLATIVE ASSEMBLY

Speaker: S. K. Wankhede.

Dy. Speaker: R. V. Bet.

Secretary: D. M. Aney.

Seats: 271 (including one Anglo-Indian nominee); *Electorate:* 25,891,761; *Votes Polled:* 15,671,508.

An estimate of party position is as follows: Congress: 221; Jan Sangh: 4; C.P.I.: 2; C.P.M.: 1; Socialist Party: 4; B.K.D.: 1; Muslim League: 2; Peasants & Workers Party: 8; Republican Party of India: 2; Shiv Sena: 1; Independents: 24; Nominated: 1; Scheduled Castes: 14; Scheduled Tribes: 16; No. of Women members: 28.

Narasing S. Deshmukh (Cong.), (*Achalpur*); Smt. Manoramabai M. Dhote (Cong.), (*Adyal*); K. B. Mhaske (Cong.), (*Ahmednagar North*); Navnitdas N. Barshikar (Ind.‡), (*Ahmednagar South*); Kisanrao N. Deshmukh (P.W.P.*), (*Ahmedpur*); Baburao T. Mane (Cong.), (*Akkalkot*); Jamnalal Shriramji Goenka (Cong.), (*Akola*); Manohar B. Tayade (Cong.), (*Akot*); Narayan K. Bhagat (Cong.), (*Alibag*); Jagatrao V. Pawar (Cong.), (*Amalner*); Ankushrao R. Tope (Cong.), (*Ambad*); Kisanrao B. Bankhele (Ind.†), (*Ambegaon*); Swarupchand J. Ajamera (Cong.), (*Amgaon*); D. N. Metkar (Cong.), (*Amravati*); R. M. Pandey (Cong.), (*Andheri*); Adkuji S. Paulzagade (Cong.), (*Arjuni-Moregaon*), B. N. Madavi (Cong.), (*Armori—S.T.*) Dhairyashilrao V. Wagh (Ind.†), (*Arvi*); Shripatrao L. Kadam (Cong.), (*Ashti*); Annasaheb U. Lengre (Cong.), (*Atpadi Kawathe Mahankal*); Vishwanathrao S. Jadhav (Cong.), (*Aurangabad East*); Dr. Rafiq Zakaria (Cong.), (*Aurangabad West*); Keshav S. Sonawane (Cong.), (*Ausa*); Purushottam K. Deshmukh (Cong.), (*Badnera*); Mothabhau Gorakh Bhamre (Cong.), (*Baglan*); Govindrao S. Sarnayak (Cong.), (*Balapur*); George D'Souza (Cong.), (*Bandra*); Sharadchandra G. Pawar (Cong.), (*Baramati*); Smt. Shailaja C. Shitole (Cong.), (*Barsi*); Iqbal Hussain (Cong.), (*Basmat*); H. G. Vartak (Cong.), (*Bassein*); Ramchandra J. Deotale (Cong.), (*Bhadravati*); Govind R. Shende (Ind.‡), (*Bhandara*); T. D. Memjade (Cong.), (*Bhawani Peth*); M. Safaderali Deshmukh (Cong.), (*Bhir*); R. B. Harris (Cong.), (*Bhiwandi*); S. B. Chavan (Cong.),

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* Denotes Samajwadi Aghadi Legislative Group; † Lokshahi Samajwadi Aghadi Group; ‡ Rashtriya Lokshahi Aghadi Group.

(*Bhokar*) ; Bhaurao N. Gawande (Cong.), (*Bhokardan*) ; Anantrao N. Thopate (Ind.†), (*Bhor*) ; P. S. Mahajan (Cong.), (*Bhusaval*) ; Jairam G. Ambekar (Cong.), (*Biloli*) ; Neelkanth Shridhar Sapkal (Cong.), (*Borgaon-Manju*) ; D. G. Palkar (Cong.), (*Borivli*) ; Baliram Marotirao Gurpude (Cong.), (*Brahmapuri*) ; Ramsing Deosing Bhonde (Cong.), (*Buldana*) ; V. R. Hoshing (Cong.), (*Byculla*).

D. D. Chavan (Cong.), (*Chalisgaon—S.C.*) ; Eknath P. Salve (Cong.), (*Chanda*) ; V. A. Desai (Cong.), (*Chandgad*) ; Janardan K. Aher (Ind.*), (*Chandor*) ; Sharad Motiram Tasare (Cong.), (*Chandur*) ; Smt. K. Sonaji Kshirsagar (Cong.), (*Chausala*) ; V. K. Tembe (Cong.), (*Chembur*) ; B. R. Bondre (Cong.), (*Chikhali*) ; G. M. Birje (Cong.), (*Chimur*) ; P. K. Sawant (Cong.), (*Chiplun*) ; Smt. Sharadchandrikabai S. Patil (Cong.), (*Chopda*) ; Smt. Aloo Jal Chibber (Cong.), (*Colaba*) ; Baliram V. Hiray (Cong.), (*Dabhadi*) ; Dr. W. S. Matkar (Cong.), (*Dadar*) ; M. G. Kadu (Cong.), (*Dahanu—S.T.*) ; Ramachandra V. Bhelose (Cong.), (*Dapoli*) ; Smt. Kokila J. Patil (Cong.), (*Daryapur*) ; A. H. Mamdani (Cong.), (*Darwha*) ; P. S. Sabne (Cong.), (*Deglur—S.C.*); R. G. Mirashi (Cong.), (*Deogad*); N. B. Gaidhani (Ind.†), (*Deolali*) ; Dr. M. B. Popat (Cong.), (*Dhobitalao*) ; Smt. Ushadevi K. Jagdale (Cong.), (*Dhond*) ; S. S. Mali (Cong.), (*Dhulia North*) ; Smt. Kamalabai C. Ajmera (Cong.), (*Dhulia South*) ; Uthamrao D. Patel (Cong.), (*Digras*) ; Kacharu B. Raut (Cong.), (*Dindori—S.T.*).

Smt. Pratiba D. Patil (Cong.), (*Edlabad*) ; Digambar S. Patil (Cong.), (*Erandol*) ; V. D. Raje (Ind.), (*Gadchiroli—S.T.*) ; Baburao S. Patil (Cong.), (*Gadhinglaj*) ; Trimbak M. Sawant (Cong.), (*Gangakhed—S.C.*) ; Balasaheb R. Pawar (Cong.), (*Gangapur*) ; S. A. Solanke (Cong.), (*Georai*) ; R. V. Tripathy (Cong.), (*Ghatkopar*) ; Pramod Navalkar (S.S.‡), (*Girgaon*) ; Smt. Rajkumari G. Bajpai (Cong.), (*Gondia*) ; R. T. Harinkhede (Cong.), (*Goregaon*) ; S. D. Natu (J.S.‡), (*Guhagar*) ; G. R. Palkar (Cong.), (*Hadgaon*) ; Babasaheb Bhausaheb Khanjire (Cong.), (*Hatkanangale*) ; M. D. Magar (Cong.), (*Haveli*) ; Keshavrao M. Zade (Cong.), (*Hinganghat*) ; Smt. Ashatai Marotiappa Tale (Cong.), (*Hingoli*) ; Vithal Ganpat Ghare (Cong.), (*Igatpuri—S.T.*) ; Shankarrao B. Patil (Cong.), (*Indapur*) ; M. A. Patil (Cong.), (*Jalgaon*) ; Bajirao S. Chavan (Ind.†), (*Jalna-North*) ; Shankarrao R. Rakh (Cong.), (*Jalna-South*) ; N. K. Patil (Ind.‡), (*Jamner*) ; Lalsingrao B. Shinde (Cong.), (*Jaoli*) ; S. T. Bamane (Cong.), (*Jath—S.C.*) ; R. G. Bhoye (Cong.), (*Jawhar—S.T.*) ; Sheshrao A. Deshmukh (P.W.P.*), (*Jintur*) ; Mrs. Latabai Tembe (Cong.), (*Junnar*) ; Sadashiv Dadoba Mandlik (Ind.†), (*Kagal*) ; G. M. Suryavanshi (Cong.), (*Kalam*) ; S. K. Wankhede (Cong.), (*Kalmeshwar*) ; V. C. Mhaske (C.P.I.-M*), (*Klaamnuri*) ; Nakul Pundlik Patil (Cong.), (*Kalyan*) ; Sulemankhan Abdullakhan Pathan (Cong.), (*Kamptee*) ; Keshavrao S. Dhondge (P.W.P.*), (*Kandhar*) ; Keshavrao Vyankateshrao Rane (Cong.), (*Kankavli*) ; N. G. Patil (Cong.), (*Kannad*) ; B. R. Kotwal (Cong.), (*Karad*) ; Y. J. Mohite (Cong.), (*Karad South*) ; E. B. Nimbalkar (Cong.), (*Karjat*) ; Sushil Kumar Shinde (Cong.), (*Karmala—S.C.*) ; Shripatrao Shankarrao Bondre (Cong.), (*Karvir*) ; R V. Sumda (Cong.), (*Kasa—S.T.*) ; Smt. Lilabhai Merchant (Cong.), (*Kasba Peth*) ; S. D. Gedam (Cong.), (*Katol*) ; Baburao Adaskar (Cong.), (*Kej*) ; T. D. Deshmukh (Cong.), (*Kelapur*) ; B. L. Patil (Cong.), (*Khalapur*) ; M. P. Gawande (Cong.), (*Khamgaon*) ; S. S. Mane (Cong.), (*Khanapur*) ; Keshavrao S. Patil (Ind.†), (*Khatav*) ; S. V. Bute Patil (Cong.), (*Khed-Alandi*) ; H. M. Dalwai (Cong.), (*Khed-Bandar*) ; Anant N. Nanjoshi (Cong.), (*Khetwadi*) ; K. C. Pachpute (Cong.), (*Kinwalt*) ; T. S. Karkhanis (P.W.P.*), (*Kolhapur*) ; D. B. Barge (Ind.†), (*Koregaon*) ; Z. B. Bukhari (M.L.) ; (*Kumbharwada*) ; P. K. Kunte (Cong.), (*Kurla*).

Sivajirao Sawant (Cong.), (*Lanja*) ; Shivaraj V. Patil (Cong.), (*Latur*) ; Jagrao Raoji Chavan (Cong.), (*Lonar*) ; Ramchandra A. Khaire (Cong.), (*Lovegrove — S.C.*) ; Vittalrao M. Shinde (Cong.), (*Madha*) ; Digambar V. Purohit (S.P.*), (*Mahad*) ; F. Michael Pinto (Cong.), (*Mahim*); Smt. Mrinal Keshav Gore (S.P.*), (*Malad*) ; Smt. Aisha Iqbal (Cong.), (*Malegaon*) ; Arjun A. Wankhede (J.S.‡), (*Malkapur*) ; Nandeorao R. Mate (Cong.), (*Malshi*) ; C. A. Deshmukh (Cong.), (*Malsiras*) ; V. G. Prabhugaonkar (Cong.), (*Malvan*) ; Smt. Prabhavati G. Shinde (Cong.), (*Man — S.C.*) ; Kisanlal R. Marda (Cong.), (*Mangalvedha*); R. V. Mahalunge (Cong.), (*Mangaon*) ; Gajadhar Ramsingh Rathod (Cong.), (*Mangrulpir*) ; Savleram N. Tribhuvan (Cong.), (*Manjalegaon — S.T.*) ; Smt. Kamala Raman Cong.), (*Matunga*) ; Krishnarao D. Bhegade (Ind.), (*Maval*) ; V. K. Toraskar (Cong.), (*Mazagon*) ; Ramrao G. Zanak (Cong.), (*Medshi*) ; Sitaram C. Lodhe (Cong.) (*Mehkar*) ; R. M. Patel (Cong.), (*Melghat — S.T.*) ; Narasinh R. Pathak (Ind.†), (*Miraj*) ; S. Shankarrao Patil (Cong.), (*Mohol*) ; Malhar G. Mahulkar (Cong.), (*Morshi*) ; Dr. D. N. Samant (Cong.), (*Mulund*) ; Shantaram G. Gholap (Cong.), (*Murbad*) ; Smt. Pratibadevi B. Tidke (Cong.), (*Murtizapur*) ; Yashwantrao S. Bhangare (Cong.), (*Nagar-Akola — S.T.*) ; Umar Abdul Azizkazi (Cong.), (*Nagpada*) ; Nawalchand Giridharlal Toksyia (Cong.), (*Nagpur*) ; Narendra R. Deoghare (Cong.), (*Nagpur-East*) ; Daulatrao H. Ganvir (Cong.), (*Nagpur-North — S.T.*) ; Dr. Smt. Sushilabai Balraj (Cong.), (*Nagpur-West*) ; Vilas V. Sawant (Cong.), (*Naigaon*) ; F. P. Makdum Pasha Sayyad (Cong.), (*Nanded*) ; Haribhau Manku Gawali (Cong.), (*Nandgaon*) ; Ramesh P. Valvi (Cong.), (*Nandurbar — S.T.*) ; Vilas Murlidhar Lonari (Cong.), (*Nasik*) ; Surupsing H. Naik (Cong.), (*Navapur — S.T.*) ; Shivajirao B. Patil (Cong.), (*Nilanga*) ; D. S. Patil (Ind.†), (*Niphad*).

B. S. Chalukya (Cong.), (*Omerga*) ; G. Ramji Survase (Cong.), (*Osmanabad*) ; Krishnarao M. Patil (Cong.), (*Pachora*) ; Kalyanrao P. Patil (Cong.), (*Paithan*) ; Vinayak S. Patil (Cong.), (*Palghar*) ; Audumbar Kondiba Patil (Cong.), (*Pandharpur*) ; Dnyandeo Yeshwantrao Patil (Cong.), (*Panhala*) ; Dinkar B. Patil (P.W.P.*), (*Panvel*); Vasudeo A. Deshmukh (R.P.I.*), (*Paranda*) ; Raosaheb Bapusaheb Jamkar (Cong.), (*Parbhani*) ; G. S. Loke (Cong.), (*Parel*) ; Shankarrao D. Kale (Cong.), (*Parner*) ; B. R. Patil (Cong.), (*Parola*) ; Haribhau Ramrao Barkule (P.W.P.*), (*Partur*); D. S. Desai (Cong.), (*Patan*); Ganpat R. Mhaske (Ind.†), (*Pathardi*) ; Sakharam G. Nakhate (Cong.), (*Pathri*) ; A. T. Patil (Ind.†), (*Pen*) ; Krishnachandra R. Bhoite (Cong.), (*Phaltan*) ; Shivajirao Dhere (Cong.), (*Poona Cantt.*) ; Smt. Prabha Rao (Cong.), (*Pulgaon*) ; Sursinh J. Jadhavrao (S.P.*), (*Purandhar*) ; V. P. Naik (Cong.), (*Pusad*) ; Krishnaji Gangaram More (Ind.†), (*Radhanagari*) ; P. B. Kadu (C.P.I.), (*Rahuri*) ; Sahadev M. Thakare (Cong.), (*Rajapur*) ; V. L. Dhote (Cong.), (*Rajura*) ; A. K. Deshmukh (Cong.), (*Ralegaon—S.T.*) ; G. F. Mahajan (Cong.), (*Ramtek*) ; S. E. Hassanain (Cong.), (*Ratnagiri*) ; M. D. Chaudhari (Cong.), (*Raver*) ; R. V. Munde (Cong.), (*Renapur*).

M. R. Kapgathe (Cong.), (*Sakoli*) ; Smt. Gojarbhai R. Bhamre (Cong.), (*Sakri*) ; Smt. Laxmibai B. Bhuwad (Cong.), (*Sangameswar*) ; Bhikajirao J. Khatal (Cong.), (*Sangamner*) ; Pandurang Bapurao Patil (Cong.), (*Sangli*) ; Ganpatrao Deshmukh (P.W.P.*), (*Sangola*) ; Jagesh Desai (Cong.), (*Santacruz*) ; Smt. Yeshodharabai B. Bajaj (Cong.), (*Saoli*) ; Narendra M. Tidke (Cong.), (*Saoner*) ; D. S. Jagtab (Cong.), (*Satara*) ; Jayanand Mathkar (S.P.*), (*Sawantwadi*); A. T. Bhosle (Cong.), (*Sewree*); S. P. Jadhav (Cong.), (*Shahada — S.T.*) ; S. R. Shinge (Cong.), (*Shahapur—S.T.*); Udayasingrao N. Gaikwad (Cong.), (*Shahuwadi*) ; Kashiram R. Patil (P.W.P.*), (*Shegaon*) ; Vakilrao B. Langhe (C.P.I.),

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* Denotes Samajwadi Aghadi Legislative Group ; † Lokshahi Samajwadi Aghadi Group ; ‡ Rashtriya Lokshahi Aghadi Group.

(*Shevgaon*) ; Bhagawanrao B. Patil (Cong.), (*Shirala*)) ; S. G. Kolhe (Ind.†), (*Shirdi*) ; Ratnappa B. Kumbhar (Cong.), (*Shirol*) ; Shivajirao G. Patil (Cong.), (*Shirpur*) ; Ravindra More (Cong.), (*Shirajinagar*) ; Ramkrishna V. Bet (Cong.), (*Sholapur City-North*) ; Smt. Nirmala S. Thokal (Cong.), (*Sholapur City-South*) ; A. B. Killedar (Cong.), (*Sholapur-North*) ; Virupakshappa G. Shivdare (Cong.), (*Sholapur-South*) ; B. M. Bharaskar (Ind.), (*Shrigonda* — S.C.) ; Govindrao W. Adik (Cong.), (*Shrirampur*) ; A. R. Antuley (Cong.), (*Shriwardhan*) ; R. K. Mhalgi (J.S.‡), (*Shukrawar Peth*) ; G. S. Mankar (Cong.), (*Sillod*) ; Smt. Lilabai Uttamrao Patil (Cong.), (*Sindkheda*) ; Ramakrishna N. Naik (Cong.), (*Sinnar*) ; M. V. Alcne (Cong.), (*Sironcha —S.C.*) ; Popatrao H. Kokare (Cong.), (*Sirur*) ; A. T. Pawar (B.K.D.*), (*Surgana—S.T.*).

Dilvarsing D. Padvi (J.S.‡), (*Taloda—S.T.*) ; Babasaheb G. Patil (Cong.), (*Tasgaon*) ; Smt. Vimal K. Rangnekar (Cong.), (*Thana*) ; Shaligram Ramratan Dixit (Cong.), (*Tiroda*) ; S. S. Patil (Cong.), (*Tuljapur*) ; Keshavrao A. Pardhi (Cong.), (*Tumsar*) ; V. B. Khadiwale (R.P.I.), (*Udgir* —S.C.) ; Sanmukh C. Israni (Cong.), (*Ulhasnagar*) ; S. A. Mane (Cong.), (*Umarkhed*) ; G. N. Banatwala (M.L.), (*Umerkhadi*) ; A. L. Waghmare (Cong.), (*Umrer*) ; Namdeo L. Vhatkar (Cong.), (*Vadgaon—S.C.*) ; Smt. Shakuntalabai V. Patil (Cong.), (*Vaijapur*) ; D. S. Nandekar (Ind.*), (*Vana*) ; S. N. Desai (Cong.), (*Vengurla*) ; Smt. Kantaben C. Shah (Cong.), (*Vile Parle*) ; P. B. Bhosle (Cong.), (*Wai*) ; Uttamrao B. Mahalle (Cong.), (*Walgaon*) ; H. N. Trivedi (Cong.), (*Walkeshwar*) ; R. A. Patil (Cong.), (*Walwa*) ; Vasantrao J. Karlekar (Cong.), (*Wardha*) ; Bhimrao M. Katke (Cong.), (*Washim—S.C.*) ; S. S. Dighe (Cong.), (*Worli*) ; J. T. Mahajan (Cong.), (*Yawal*) ; N. R. Nhorkade (Ind.†), (*Yeola*) ; N. R. Gharphalkar Kadu (Ind.), (*Yeotmal*) ; Dennis L. Amore—Nominated (*Anglo-Indian*).

MAHARASHTRA LEGISLATIVE COUNCIL

Chairman : V. S. Page ; *Dy. Chairman :* R. S. Gavai ; *Secretary :* D. M. Arey ; *Jt. Secretary :* S. R. Kharabe.

Strength : 78. Party position : Congress 49 ; Independent 11 ; Bharatiya Jan Sangh (J.S.) 6 ; Republican 2 ; Congress (O) 2 ; Peasants and Workers (P & W) 4 ; Bharatiya Kranti Dal (B.K.D.) 1 ; Shiv Sena (S.S.) 1 ; Samajwadi (S) 2 ; No. of women members 2.

Local Authorities Constituency (22) : Marutrao S. Ghule (Cong.), (*Ahmednagar*) ; H. Mohd. Usman Farooqui Umar (Cong.), (*Akola & Buldana*) ; Narayan U. Deshmukh (Cong.), (*Amravati*) ; Baburao G. Jadhav (Cong.), (*Aurangabad*) ; Gopalnarayan S. Bajpai (Ind.[1]), (*Bhandara*) ; Vasudev N. Bhruguwar (Cong.), (*Chanda & Rajura*); Pralhad Bhaidas Chaudhari (Cong.), (*Dhulia*) ; Manohar G. Joshi (S.S.), (*Gr. Bombay*) ; Linganna P. Pujari (Cong.), (*Gr. Bombay*) ; Dajiba Parvat Patil (Cong.), (*Jalgaon*) ; Kamal Ramdas *alias* Kaka Patil (Cong.), (*Kolaba*) ; Sadashivrao A. Shinde (Cong.), (*Kolhapur*) ; Jatiram C. Barve (Cong.), (*Nagpur*) ; Mulchand S. Gothi (B.K.D.), (*Nasik*) ; Sahebrao D. Hangagekar (Cong.), (*Osmanabad & Bhir*) ; Manikrao S. Maske (Cong.), (*Parbhani & Nanded*) ; Sambhajirao Kakade (Cong.–O), (*Pune*) ; Chitrasen R. Khanolkar (Ind.), (*Ratnagiri*) ; Vasantrao B. Patil (Cong.), (*Sangli-cum-Satara*) ; Manikrao P. Mangudkar (Cong.), (*Sholapur*) ; Sonubhau D. Baswant (Cong.), (*Thana*) ; Deorao Anandrao Patil (Cong.), (*Wardha & Yeotmal*).

Elected by the Legislative Assembly (30) : Abasaheb Dattarao Deshmukh (Cong.) ; Annasaheb R. Gavhane (P & W.[2]) ; Appasaheb R. Jadhav (Cong.), Bhausaheb L. Shirole (Cong.) ; Bhiku D. Bhilare (Cong.) ; Damodar T. Rupavate (Cong.) ; Dashrath H. Tayade (P & W.[2]); Dattatraya B. Thamhane; (S); Ganpati Nayaku Koli (Cong.) ; Govindrao B. Patil (Cong.); Govindrao P. Buchake (Ind.[2]) ; Lakshman E. Manal (Cong.) ; Laxmanrao Bisanji Mankar (J.S.[1]), Madhav G. Patil (Cong.) ; Motiram U. Lahane (J.S.[1]) ; Narayan D. Patil (P & W.) ; Narayan G. Nande (Cong.) ; Narayan W. Karwade (Cong.) ; Nivrittirao V. Ugale (Cong.), Pandurang B. Salunke (Cong.) ; Qamarnayar L. A. Ahmed (Cong.) ; Pundalik G. Bhanarkar (Cong.) ; Ramkrishna Meghe (Cong.) ; Smt. Qamar N. Ahmed (Cong.) ; Ramakrishna S. Gavai (Rep.) ; Sadashiv K. Vaishampayan (Cong.) ; Shankar V. Sonavane (Cong.) ; Uttamrao B. Rathod (Cong.) ; Vithal L. Reelkar (Cong.) ; Vithal S. Page (Cong.) ; Vithalrao B. Jagtap ; Dr. Leon D'Souza.

Teachers' Constituency (7): D. B. Sule (Ind.), *Bombay-cum-Maharashtra*) ; Jagannath G. Bhave (Ind.[1]), (*Gr. Bombay-cum-Maharashtra*) ; Dhondo V. Deshpande (Ind.[1]), (*Gr. Bombay-cum-Maharashtra*) ; Prakash G. Mohadikar (Ind.[2]), (*Gr. Bombay-cum-Maharashtra*) ; Mukund T. Kulkarni (Ind.[1]), (*Gr. Bombay-cum-Maharashtra*) ; Uttamrao L. Patil (J.S.), (*Maharashtra*) ; Digambar K. Deshmukh (Ind.) ; Haribhau S. Hatwar (Ind.), (*Vidarbha*) ; Mahadev N. Anjikar (Ind.), (*Vidarbha*) ; Ganpati R. Vaidya (Ind.[1]), (*Vidarbha*).

Graduates' Constituency (7) : Prof. Gajanan B. Kanitkar (J.S.[1]), (*Gr. Bombay*) ; Dr. Vasantkumar R. Pandit (J.S.[1]), (*Gr. Bombay*) ; Ganesh P. Pradhan (S.S.[2]), *Maharashtra*) ; Uttamrao L. Patil (J.S.[1]), *Maharashtra*) ; Govind K. Athavle (Ind.[1]), (*Vidarbha*) ; Ramjivan F. Choudhary (J.S.[1]), (*Vidarbha*) ; Vishnu G. Deshmukh (J.S.), (*Vidarbha*).

Nominated (12) : Charudatta C. Shah (Cong.) ; Daulat Maruti Bhosle (Cong.) ; Jawaharlal A. Darda (Cong.) ; Jethmal K. Maheshwari (Cong.) ; Dr. J. Leon D'Souza (Cong.) ; Madhavrao K. Sagale (Cong.) ; Narhar Waman Limaye (Ind.) ; P. N. Rajbhoj (Cong.) ; Pandharinath V. Patil (Cong.) ; Smt. Pramilaben Bhamshankar (Cong.) ; Shamrao Sakharam Kadam (Cong.) ; Vasant K. Desai (Ind.) ; Vacant 4.

MANIPUR LEGISLATIVE ASSEMBLY

Speaker : Rajkumar Dorendra Singh.

An estimate of party position : Manipur People's Party : 20 ; Manipur Hill Union : 12 ; Congress 13 ; Communist Party of India : 6 ; Kuki National Assembly : 2 ; Socialist Party 2 ; Independents : 5.

Araf Ali (M.P.P.), (*Andro*) ; Khaidem Rath Singh (Cong.), (*Bishenpur*) ; H. T. Thungam (M.H.U.), (*Chandel—S.T.*) ; Somi A. Shimray (M.H.U.), (*Chingai—S.T.*) ; H. Thangjom (M.H.U.), (*Churachundpur—S.T.*) ; Nongthmbam Chaob Singh (Ind.), (*Heingang*) ; Moirangthem Ibotombi Singh (Cong.), (*Heirok*) ; Holkhomang (Cong.), (*Henglep—S.T.*) ; Nongthongbam Chaoba Singh (Ind.), (*Hiyangang*) ; Maibam Kunjo Singh (M.P.P.), (*Hiyanglam*) ; Sinam Bijoy (Cong.), (*Jiribam*) ; Kshetri Irabot Singh (C.P.I.), (*Kakching*) ; Kishore Thapa (Cong.),

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* Denotes Samajwadi Aghadi Legislative Group ; † Lokshahi Samajwadi Aghadi Group ; ‡ Rashtriya Lokshahi Aghadi Grup.

[1] Denotes Rashtriya Lokshahi Aghadi ; [2] Samajwadi Aghadi.

(*Kangpokpi*); K. S. Bonjamen Banee (Ind.), (*Karong*); Mohd. Jalaluddin (M.P.P.), (*Keirao*); R. K. Ranbir Singh (Cong.), (*Keishamthong*); Thokchom Achouba Singh (C.P.I.), (*Khangabok*); Maibam Hera Singh (C.P.I.), (*Khundrakpam*); K. Bortakur Sharma (S.P.), (*Khurai*); Abdul Wahid (M.P.P.), (*Kshetrigao*); Heigrujam Thoithoi Singh (Ind.), (*Konthougam*); Wahengbam Komol Singh (M.P.P.), (*Kumbi*); P. Parijat (C.P.I.), (*Lamlai*); K. J. Singh (C.P.I.), (*Lamshang*); Alimuddin (M.P.P.), (*Lilong*); Okram Joy Singh (M.P.P.), (*Langthabal*); Kh. Thekho (Ind.), (*Mao–S.T.*); Abdul Latif (M.P.P.), (*Mayang Imphal*); Kiyam Shyam Singh (Cong.), (*Moirang*); T. Chaoba Singh (M.P.P.), (*Nambol*); T. Sanaojao Singh (M.P.P.), (*Naoria Pakhanglakpa*); Jangamlung (M.H.U.), (*Nungba–S.T.*); Y. Y. Singh (M.P.P.), (*Oinam*); Dr. Leishangthem Chandramani Singh (M.P.P.), (*Patsoi*); Rishang Keishing (Cong.), (*Phungyar*); Salam Tombi (M.P.P.), (*Sagolband*); Ngulkhohao (K.N.A.), (*Saikot–S.T.*); Shonkhothang (Cong.), (*Saikul–S.T.*); Zampu Kipgin (K.N.A.), (*Saitu–S.T.*); Salam Tombi Singh (M.P.P.), (*Sayalband*); K. Chaoba Singh (M.P.P.), (*Sekmai–S.C.*); T. Goujin (M.H.U.), (*Singhat–S.T.*); Sanasam Barmani Singh (Ind.), (*Singhjame*); Khaidem Nimaichand Singh (M.P.P.), (*Sugnu*); S. Adani (M.H.U.), (*Tadubi–S.T.*); Pauhem (M.H.U.), (*Tamei–S.T.*); T. P. Kiulengpau (M.H.U.), (*Tamenglong–S.T.*); L. Rangman (M.H.U.), (*Tengnoupal*); Maibam Gouramani Singh (M.P.P.), (*Thamgmeiband*); N. Gouzagin (M.H.U.), (*Thalon*); S. Jayantakumar Singh (Cong.), (*Thanga*); H. Shyama Singh (S.P.), (*Thongju*); Koijam Mangi Singh (M.P.P.), (*Thoubal*); Ngurdingein (Cong.), (*Tipaimukh*); Yangmasho Shaiza (Ind.), (*Ukhurul–S.T.*); M Meghachandra Singh (C.P.I.), (*Uripok*); Habibur Rehman (Cong.), (*Wabgai*); S. Ibomcha Singh (Ind.), (*Wangjing Tentu*); Wahengbam Nipamacha Singh (Cong.), (*Wangoi*); Chaoba Singh (M.P.P.), (*Wangkem*); K. Pishak Singh (M.P.P.), (*Wankhei*); Rajkumar Dorendra Singh (M.P.P.), (*Yaiskul*).

MEGHALAYA LEGISLATIVE ASSEMBLY

Speaker : Prof. Radhon Singh Lyngdoh ; *Dy. Speaker :* Singjan Sangma.

Seats : 60. *Electorate :* 418,495 ; *Votes polled :* 215,151 ; *Party Position :* All Party Hill Leaders' Conference 39 ; Congress 12 ; Independents : 1 ; Hill State People Democratic Party 8. Woman member : one.

Jagabandhu Barman (Cong.), (*Ampatigiri–S.T.*) ; ; Grohonsingh Marak (APHLC), *Bajengdoba–S.T.*) ; A. Jackman Marak (APHLC), (*Chokpot–S.T.*) ; Reidson Momin (APHLC), (*Dadengiri–S.T.*) ; Ira Marak (APHLC), (*Dalamgiri–S.T.*) ; Nimosh Sangma (APHLC), (*Dalu–S.T.*) ; Brojendro Sangma (APHLC), (*Dambuk-Aga–S.T.*) ; Besterson Kharkongor (APHLC), (*Dienglieng-S.T.*); P. Ripple Kyndiah (APHLC), (*Jaiaw-S.T.*) ; Blooming Shallam (APHLC), (*Jowai–S.T.*) ; Pritington Sangma (APHLC), (*Kharkutta–S.T.*) ; Plansing Marak (APHLC), (*Kherapara–S.T.*) ; Parsvanath Choudhury (Cong.), (*Laban*) ; Peter Garnett Marbaniang (APHLC), (*Laitumkhrah*) ; Humphery Nongrum (APHLC), (*Langrin-S.T.*) ; Galynstone Laloo (APHLC), (*Lyngkyrdem-S.T.*) ; Samsul Haque (Ind.), (*Mahendraganj*) ; Y. Fuller Lyngdoh Mawnai (HSPDP), (*Mairang–S.T.*) ; Upstar Kharbuli (Cong.), (*Malki*) ; Prof. Martin Narayan Majaw (HSPDP), *Mawhati–S.T.*) ; Prof. Alexander Warjri (APHLC), (*Mawkhar–S.T.*) ; Rowell Lyngdoh (HSPDP), (*Mawkyrwat–S.T.*) ; Stanlington David Khongwir (HSPDP), (*Mawlai–S.T.*) ; Maham Singh (Cong.), (*Mawprem*) ; Kisto M. Roy Marbaniang (APHLC), (*Mawsynram–S.T.*) ; Raisen Mawsor (HSPDP), (*Mawthengkut–S.T.*) ; Sibendra Narayan Koch (Cong.), (*Mendipathar*) ; Jor Manik Syiem (APHLC) (*Mylliem–S.T.*) ; Humphrey Hadem (APHLC), (*Mynso Raliang–S.T.*).

Edwingson Bareh (APHLC), (*Nartiang–S.T.*) ; Hoover Hynniewta (Ind.), (*Nongkhlaw–S.T.*) ; D. Dethwelson Lapang (APHLC), (*Nongpoh–S.T.*) ; Darwin D. Pugh (APHLC), (*Nongshken-S.T.*) ; Francis K. Mawlot (HSPDP), (*Nongstoin–S.T.*) ; Enowell Pohshna (Cong.), (*Nongtalang-S.T.*) ; Brington Buhai Lyngdoh (APHLC), (*Nongthymmai-S.T.*) ; Prof. Radhon Singh Lyngdoh (APHLC), (*Nonkrem–S.T.*) ; Winstone Syiemiong (HSPDP), (*Nonspung–S.T.*) ; Hopingstone Lyngdoh (HSPDP), (*Pariong–S.T.*) ; Akramozzaman (Cong.), (*Phulbari*) ; Salseng Marak (APHLC), (*Resubelpara–S.T.*) ; Medison A. Sangma (APHLC), (*Rongchugiri–S.T.*) ; Pleander Gare Momin (APHLC), (*Rongjeng–S.T.*) ; Miss Percylina Marak (APHLC), (*Rongram–S.T.*) ; Choronsing Sangma (APHLC), (*Rongreng-giri–S.T.*) ; Sandford K. Marak (APHLC), (*Rongsakona–S.T.*) ; Lewis Bareh (Cong.), (*Rymbai–S.T.*) ; Samarendra Sangma (APHLC), (*Salmanpara–S.T.*); William Cecil R. Marak (Cong.), (*Seesella*) ; Stanley D. D. Nichols Roy (APHLC), (*Shella–S.T.*) ; Dhrubanath Joshi (Cong.), (*Shillong Cantt.*) ; Williamson A. Sangma (APHLC), (*Siju–S.T.*) ; Edward Kurbah (Cong.), (*Sohiong–S.T.*) ; S. P. Swer (APHLC), (*Sohra.*) ; G. Mylliemngap (APHLC), (*Sohryngkham–S.T.*) ; Elwin Sangma (APHLC), (*Songsak*) ; Onward Leyswell Nongtdu (APHLC), (*Sutnga–S.T.*) ; Manindra Rabha (APHLC), (*Tikrikilla*) ; Singjan Sangma (Cong.), (*Tura–S.T.*) ; Dlio Singh Lyngdoh (APHLC), (*Umroi–S.T.*).

MIZORAM LEGISLATIVE ASSEMBLY

Speaker : H. Thansanga. *Dy. Speaker :* Hiphei.

The following are the names of the members and their constituencies respectively: Lalrinliana (*Aizawl—Central*); R. Thangliana (*Aizawl — North*) ; Lalsangzuala (*Aizawl — South*) ; P. B. Nikhuma (*Buarpui*) ; Satya Pryo Dewan (*Chawangle*) ; Hari Kristo Chakma (*Demagiri*) ; Thangzika (*Hnahthial*) ; Ch. Saprawnga (*Kawanpui*) ; F. Hrangvela (*Khawbung*) ; J. Thanghuama (*Khawhai*) ; Vanlalhruaia (*Khawzawl*) ; Ch. Chhunga (*Kolasib*) ; K. L. Rochama (*Lunglei*) ; C Lalruata (*Lungpho*) ; C. Chawngkunga (*Mamit*) ; Lalkunga (*Phuldungsei*) ; Sangkhuma (*Ratu*) ; Zalawama (*Rengdil*) ; Sapliana (*Saiha*) ; Ngurdawla (*Sairang*) ; Khawtinkhuma (*Saitual*) ; K. Sangchhum (*Sangau*) ; R. Zoliana (*Sateek*) ; Vaivenga (*Serchhip*) ; H. Thansanga (*Suangpuilawn*) ; Hrangaia (*Tlungvel*) ; Hiphei (Tuipang) ; R. Dotinaia (*Vanlaiphai — North*) ; Saitlawama (*Vanlaiphai — South*).

Nominees : Kapoor Chand Thakuri ; Saptawni ; Lalhmingthanga.

NAGALAND LEGISLATIVE ASSEMBLY

Assembly was dissolved on May 20, 1975.

ORISSA LEGISLATIVE ASSEMBLY

Speaker : N. P. Singh.

No. of Constituencies : 147.

Party position : Congress 69 ; Congress (Organisation) : Nil ; Utkal Congress 34 ; Swatantra 21 ; Communist Party of India : 7 ; Communist Party of India (Marxist) : 3 ; Jana Congress 1 ; Jharkand Party : 1 ; Independents : 8.

Women members : 3.

Members of the Scheduled Tribes : 34 ; Scheduled Castes : 22.

Bhubanananda Jena (Cong.), (*Anandapur — S.C.*) ; Adwait Prasad Singh (Cong.), (*Angul*) ; Harihardas (C.P.I.), (*Aska*) ; Bhajman Behera (Cong.), (*Athmallik*) ; Radhanath Rath (Ind.), (*Athgarh*) ; Sarat Kumar Deb (Swa.), (*Aul*) ; Sashi Bhushan Marndi (Ind.), (*Bahalla—S.T.*) ; Kuanria Majhi (Cong.), (*Baidinga—S.T.*) ; Arun Dey (C.P.I.), (*Balasore*) ; Basudeb Mohapatra (Cong.), (*Balikuda*) ; Gopinath Bhoi (U. Cong.), (*Balipatna—S.C.*) ; Sahura Mallick (Cong.), (*Balliguda—S.T.*) ; Rudra Mohan Das (C.P.I.), (*Bangripose—S.T.*) ; Dr. Jogesh Chandra Rout (Ind.), (*Banki*) ; Rajasaheb Trilochan Singh Deo (Swa.), (*Baramba*) ; Dussasan Gena (C.P.I.), (*Barchana*) ; Nabin Kumar Pradhan (S.S.P.), (*Bargarh*) ; Prahlad Mallick (U. Cong.), (*Bariderabisi*) ; Pramod Chandra Bhanj Deo (Ind.), (*Baripada*) ; Chintamani Jena (Cong.), (*Basta*) ; Jagabandhu Das (Cong.), (*Basudebpur*) ; Satyananda Champatiray (U. Cong.), (*Begunia*) ; Binayak Acharya (Cong.), (*Behrampur*) ; Bairagi Jena (U. Cong.), (*Bhandaripokhari—S.C.*) ; Jugal Kishore Patnaik (Cong.), (*Bhadrak*) ; Somanath Ratha (Cong.), (*Bhanjanagar*) ; Mohan Nag (Cong.), (*Bhatli—S.C.*) ; Jaganmohan Nayak (Swa.), (*Bhawani-patna—S.C.*) ; Kartikeswar Patra (Cong.), (*Bhograi*) ; Harekrushru Mahtab (U. Cong.), (*Bhubaneswar*) ; Gananath Pradhan (U. Cong.), (*Bijepur*) ; Biashnaba Charan Mallick (Cong.), (*Binjharpur—S.C.*) ; Radhamohan Mishra (Swa.), (*Binka*) ; Hrushikesh Hota (Ind.), (*Birmaharajpur*) ; Christodas Lugun (*Jharkhand*), (*Birmitrapur—S.T.*) ; Ulka Dambarudhar (Cong.), (*Bassam-Cuttack—S.T.*) ; Rajendra Narayan Singh Dev (Swa.), (*Bolangir*) ; Benduhar Naik (Cong.), (*Bonai—S.T.*) ; Natabar Pradhan (Swa.), (*Boudh*) ; Siddheswar Panigrahi (C.P.M.), (*Brahmnagiri*) ; Prasanna Kumar Panda (C.P.I.), (*Brajrajnagar*).

Guru Charan Naik (Cong.), (*Champna—S.T.*) ; Manmohandas (Cong.), (*Chandbali—S.C.*) ; Daitari Behara (U. Cong.), (*Chathrapur*) ; No nomination filed (*Chilka*) ; Sacchidananda Dev (Cong.), (*Chikati*) ; Kanhu Charan Lenka (Cong.), (*Choudwar*) ; Gangadhar Madi (Cong.), (*Chitrakonda—S.T.*) ; Srikunta Panda (U. Cong.), (*Cuttack City*) ; Trilochan Kannungo (Cong.), (*Cuttack-Sadar*) ; Syamoghono Majhi (Swa.), (*Dabugam—S.T.*) ; Harihar Karana (Ind.), (*Daspalla—S.C.*) ; Raja Bhanuganga Tribhuvan Deb, (Swa.), (*Deogarh*) ; Hrudananda Mallick (U. Cong.), (*Dhamanagar*) ; Dayanidhi Naik (Swa). (*Dharamgarh—S.C.*) ; Banka Behari Das (Cong.), (*Dharamsala*) ; Smt. Nandini Satpathy (Cong.), (*Dhenkaral*) ; Loknath Choudhury (C.P.I.), (*Ersama*) ; Mohan Nayak (Cong.), (*Gopalpur—S.C.*) ; Sribatsa Nayak (Cong.), (*Gondia*) ; Sudhansumallini Ray (Cong.), (*Govindpur*) ; Bhagirathi Gumango (Cong.), (*Gunupur—S.T.*) ; Bhagirathi Naik (Cong.), (*Hindol—S.C.*) ; Brundaban Nayak (U. Cong.), (*Hinjili*) ; Basta Naik (Cong.), (*Jagnath Prasad—S.C.*) ; Lakshman Mallick (Cong.), (*Jagatsinghpur—S.C.*) ; Jaganath Mallick (U. Cong.), (*Jajpur—S.C.*) ; Gadadhar Giri (S.P.), (*Jaleswar*) ; Ghanshyam Hemram (Ind.), (*Jashipur—S.T.*) ; Satyapriya Mohanty (U. Cong.), (*Jatni*) ; Raghunath Patnaik (Cong.), (*Jeypore*); Smt. Saiendhri Nevak (Cong.), (*Jharsuguda*) ; Udit Pratap Deo (Swa.), (*Junagarh*).

Brundaban Patra (Cong.), (*Kakatpur*) ; Brahmananda Biswal (Cong.), (*Kamakhyanagar*) ; Ram Prasad Misra (Swa.), (*Kantabanji*) ; Karunakar Naik (Cong.), (*Karanjia—S.T.*) ; Sadananda Mahanty (C.P.I.), (*Kavisuryanagar*) ; Bedprakash Agarwalla (U. Cong.), (*Kendrapara*) ; Gobinda Munda (Swa.), (*Keonjhar—S.T.*) ; Sharat Chandra Singh Deo (Swa.), (*Kesinga*) ; Smt. V. Suguna Kumari Dev (U. Cong.), (*Khallikote*) ; Satyasundar Misra (Ind.), (*Khandapara*) ; Anup Singh Deo (U. Cong.), (*Khariar*) ; Ramesh Chandra Soren (Cong.), (*Khunta—S.T.*) ; Benudhar Baliar Singh (Cong.), (*Khurda*) ; Batakrishna Jena (U. Cong.), (*Kissannagar*) ; Kahnu Charan Nayak (Cong.), (*Kodala*) ; Sombaru Majhi (U. Cong.), (*Kodinga—S.T.*) ; Chandrabhanu Singh Deo (Swa.), (*Koksara*) ; Basudeb Majhi (Cong.), (*Kolpad—S.T.*) ; Ashok Kumar Das (U. Cong.), (*Korai*) ; Harish Chandra Basipatra (U. Cong.), (*Koraput*) ; Jagateswar Mirdha (Cong.), (*Kuchinda—S.T.*); Sarat Chandra Singh (Cong.), (*Kuliana—S.T.*) ; Hemananda Biswal (Cong.), (*Laikera—S.T.*) ; Anantaram Majhi (Cong.), (*Lakshmipur—S.T.*) ; Ananga Udaya Singh Deo (Swa.), (*Loisingha*) ; Sk. Matelub Ali (Cong.), (*Mahanga*) ; Naka Kannaya (U. Cong.), (*Malkangiri—S.C.*) ; Prakash Chandra Debla (Cong.), (*Melchamunda*) ; Udaya Narayan Dev (U.Cong.), (*Mohana*) ; Khagabat Behera (S.P.), (*Navagarh*) ; Dhaneswar Majhi (Swa.), (*Narla—S.T.*) ; Jagannath Patnaik (Cong.), (*Nawapara*) ; Madharaj Harichandran (B.L.D.), (*Nilingiri*) ; Nilamani Sita (Cong.), (*Nimapara—S.C.*) ; Habibulla Khan (Swa.), (*Nowrangapur*).

Kurpasindhu Bhoi (Cong.), (*Padampur*) ; Narayan Sahu (Cong.), (*Pallahara*) ; Nalla Karunaikulu (U. Cong.), (*Parlakhemundi*) ; Biswanath Mallick (Cong.), (*Patamundai—S.C.*) ; Rajkishore Naik (Cong.), (*Patkura*) ; Maheswar Majhi (Cong.), (*Patna—S.T.*) ; Ainthu Sahu (Swa.), (*Patnagarh*) ; Chandra Sekhar Behera (Cong. (*Phulbani—S.C.*) ; Bipin Bihari Das (Cong.) (*Pipli*) ; Dissari Sannu (U. Cong.), (*Pottangi—S.T.*) ; Brajmohan Mohanty (Cong.), (*Puri*) ; Agapit Lekra (Cong.), (*Ragunathpali—S.T.*) ; Basanta Kumar Mohananda (Cong.), (*Rairakhole—S.C.*) ; Arjun Majhi (U. Cong.), (*Rairangpur—S.T.*) ; Christopher Ekka (Cong.), (*Rajgangpur—S.T.*) ; Bijoynanda Patnaik (U. Cong.), (*Rajnagar*) ; Muralidhar Kunar (U. Cong.), (*Ramachandrapur*) ; Chakradhar Naik (U. Cong.), (*Ramgiri—S.T.*) ; Ramesh Chandra Panda (C.P.M.), (*Ranpur*) ; Ulka Ramachandra (Cong.), (*Rayagada—S.T.*) ; Dhananjeya Mohanty (Cong.), (*Rourkela*) ; Krushna Chandra Pania (Swa.), (*Saintala*) ; Bhaidhur Behera (Cong.), (*Salepur—S.C.*) ; Sriballav Panigrahi (Cong.), (*Sambalpur*) ; Gangadhar Mahapatra (Cong.), (*Satyabadi*) ; Sailen Mahapatra (Cong.), (*Simulia*) ; Daulat Bagh (Swa.), (*Sonepur—S.C.*) ; Jadunath Das Mahapatra (Cong.), (*Soro*) ; Sanatan Deo (Cong.), (*Sukinda*) ; Dibyalochan Shekhar Deo (Cong.), (*Sundargarh*) ; Sarat Chandra Panda (Cong.), (*Suruda*) ; Brundaban Behera (J. Cong.), (*Talcher—S.C.*) ; Premananda Kalo (Cong.), (*Talsara—S.T.*) ; Niladri Naik (U. Cong.), (*Telkoi—S.T.*) ; Pratap Chandra Mohanty (U. Cong.), (*Tirtol*) ; Tapi Jal (Swa.), (*Titilagarh—S.C.*) ; Ravaneswan Madhei (Cong.), (*Udala—S.T.*) ; Gopal Pradhan (Cong.), (*Udayagiri—S.T.*); Rabisingh Majhi (U. Cong.), (*Umarkote—S.T.*).

PONDICHERRY LEGISLATIVE ASSEMBLY

The assembly was dissolved on March 15, 1974 and President's rule was imposed in the Union Territory.

PUNJAB LEGISLATIVE ASSEMBLY

Speaker : Dr. Kewal Krishna ; *Dy. Speaker :* Nasib Singh Gill.

Seats : 104 ; *Electorate :* 7,179,085 ; *Votes Polled :* 4,973,011 ; Party position : Congress 65 ; Communist Party of India 10 ; Shiromani Akali Dal 24 ; Communist Party of India (Marxist) 1 ; Vacant 3. Women members : 6.

Bal Ram (Cong.), (*Abohar*) ; Dr. Harbhajan Singh (Cong.), (*Adampur*) ; Harcharan Singh (Cong.), (*Ajnala*) ; Harchand Singh (Cong.), (*Amloh—S.C.*) ; Pratap Chand Bhandari (Cong.), (*Amsitsar Central*) ; Dr. Baldev Parkash (J.S.), (*Amritsar East*) ; Pirthipal Singh (Cong.), (*Amritsar South*) ; Satya Pal Dang (C.P.I.), (*Amritsar West*) ; Giani Zail Singh (Cong.), (*Anandapur Sahib*) ; Gurdit Singh (Cong.), (*Attari—S.C.*) ; Gurcharan Singh Nihalsinghwala (Cong.), (*Baghapurana*) ; Jagat Ram (Cong.), (*Banga—S.C.*) ; Dalip Chand (Cong.), (*Balachaur*) ; Hans Raj Sharma (Cong.), (*Banur*) ; Umrao Singh (Cong.), (*Bara Pind*) ; Surjit Singh (S.A.D.), (*Barnala*) ; Vishva Mittar Sekhri (Cong.), (*Batala*) ; Sohan Singh Jalalusman (Cong.), (*Beas*) ; Kundan Singh Patang (S.A.D.), (*Bhadaur—S.C.*) ; Kesho Ram Goel (Cong.) (*Bhatinda*) ; Gurdev Singh Bakshiwala (Cong.), (*Budhlada*) ; Jasdev Singh Sandhu (S.A.D.), (*Dakala*) ; Basant Singh Khalsa (S.A.D.) (*Dakha—S.C.*) ; Vacant. (*Dasuya*) ; Sukhdev Singh Dhindsa (S.A.D.), (*Dhanaula*) ; Smt. Kulwant Kaur (S.A.D.), (*Dharamkot*) ; Rajkumar (C.P.I.), (*Dhariwal*) ; Achhra Singh (C.P.I.), (*Dhuri*) ; Jai Muni (Cong.), (*Dinanagar—S.C.*) ; Gurdev Singh Badal (S.A.D.), (*Faridkot—S.C*) ; Santokh Singh Randhawa (Cong.), (*Fategarh*) ; Kanshi Ram (Cong.), ((*Fazilka*) ; Balmukand Sharma (Cong.) ; (*Ferozepur*) ; Mohinder Singh Sayanwala (S.A.D.), (*Ferozepur Cantt.*).

Darshan Singh Canadian (C.P.I.), (*Garhshankar*), Parkash Singh Badal (S.A.D.), (*Giddarbaha*) ; Khushal Bahl (Cong.), (*Gurdaspur*) ; Lachhman Singh (Cong.), (*Guru Harsahai*) ; Kundan Singh (Cong.), (*Hoshiarpur*) ; Tara Singh Chheena (S.A.D.), (*Jagraon*) ; Mehtab Singh Nokerian (C.P.I.), (*Jalalabad*) ; K. P. Darshan Singh (Cong.), (*Jamsher—S.C.*) ; Karnail Singh Marhari (S.A.D.), (*Jandiala—S.C.*) ; Balbi Singh (Cong.), (*Jullundur Cantt.*); Gurdial Saini (Cong.), (*Jullundur North*) ; Yash Pal (Cong.), (*Jullundur South*) ; Kirpal Singh Dhillon (Cong.), (*Kapurthala*) ; Gurbanta Singh (Cong.), (*Kartarpur—S.C.*) ; Smt. Jaswant Kaur (Cong.), (*Khadoor Sahib*) ; Prithvi Singh Azad (Cong.), (*Khanna—S.C.*) ; Shamsher Singh Josh (C.P.I.), (*Kharar*) ; Jaswinder Singh Brar (S.A.D.), (*Kotkapura*) ; Capt. Rattan Singh (Cong.), (*Kum Kalan*).

Dana Ram (C.P.I.), (*Lambi—S.C.*) ; Brish Bhan (Cong.), (*Lehra*) ; Sardari Lal Kapoor (Cong.), (*Ludhiana North*) ; Jaginder Pal Pandey (Cong.), (*Ludhiana South*) ; Gurmail Singh (Cong.), (*Mahilpur—S.C.*) ; Vacant (*Majitha*) ; Smt Sajida Begum (Cong.), (*Malerkotla*) ; Smt. Gurbinder Kaur Brar (Cong.), (*Malout*) ; Jangir Singh Joga (C.P.I.), (*Mansa*) ; Mrs. Gurdev Kaur Gill (Cong.) (*Moga*) ; Vacant ; (*Morinda—S.C.*) ; Dr. Kewal Krishna (Cong.)*, (*Mukerian*) ; Ujagar Singh (Cong.) ; (*Muktsar—S.C.*) ; Gurdarshan Singh (Cong.), (*Nabha*) ; Darbara Singh (Cong.), (*Nakodar*) ; Miss Sarla Prashar (Cong.), (*Nangal*) ; Sunder Singh (Cong.), (*Narot Mehra—S.C.*) ; Dhanna Singh (Gulshan (S.A.D.), (*Nathana—S.C.*) ; Dilbagh Singh (Cong.), (*Nawanshahr*) ; Saghar Singh (C.P.I.), (*Nihat Singhwala—S.C.*) ; Darshan Singh (Cong.), (*Nurmahal*) ; Surjit Singh Sidhu (S.A.D.), (*Pakka Kalam*) ; Ram Singh (Cong.), (*Pathankot*) ; Prem Gupta (Cong.), (*Patiala*), Surinder Singh Kairon (Cong.), (*Patti*) ; Beant Singh (Cong.), (*Payal*) ; Piara Ram Dhanowali (Cong), (*Phagwara—S.C.*) ; Surjit Singh Atwal (Cong.), (*Phillaur*) ; Harbans Singh Jalal (S.A.D.), (*Phul*) ; Satnam Singh Bajwa (S.A.D.), (*Quadian*) ; Arjan Singh Litt(S.A.D.) (*Quila Raipur*) ; Jagdev Singh Talwandi (S.A.D.), (*Raikot*) ; Prem Singh Prem (Cong.), (*Raipur*) ; Brij Lal Goel (Cong.), (*Rajpura*) ; Gurbachan Singh (Cong.), (*Ropar*) ; Gurdev Singh Sidhu (S.A.D.), (*Samana—S.C.*) ; Prehlad Singh (S.A.D.), (*Samrala*) ; Gurbux Singh Sibia (Cong.), (*Sangrur*) ; Balvinder Singh Bhunder (S.A.D.), (*Sardulgarh*) ; Guran Das Hans (Cong.), (*Sham Chaurasi—S.C.*) ; Chand Singh (C.P.I.-M.), (*Sherpur—S.C.*) ; Randhir Singh Cheema (S.A.D.), (*Sirhind*) ; Waryam Singh Bhagowalia (Cong.), (*Srihargobindpur*) ; Sadhu Singh (Cong.), (*Sultanpur*) ; Gurbachan Singh (S.A.D.), (*Sunam*) ; Sukhdev Singh Dhillon (S.A.D.), (*Talwandi Sabo*) ; Dr. Amir Singh Kalkat (Cong.), (*Tanda*) ; Dilbagh Singh Daleke (Cong.), (*Tarn Taran*) ; Arjan Singh Mastana (C.P.I.), (*Valtoha*) ; Gurmej Singh (Cong.), (*Verka—S.C.*) ; Nasib Singh Gill (Cong.), (*Zira*).

RAJASTHAN LEGISLATIVE ASSEMBLY

Speaker : Ram Kishore Vyas.

Deputy Speaker : Ram Singh Yadav.

Seats : 184. Party position : Congress : 143 ; Swatantra Party : 10 ; Jan Sangh : 7 ; Communist Party of India : 5 ; Communist Party (Marxist) : 1 ; Socialist Party : 5 ; Independents : 11 ; Women members : 7.

Bhura Ram (Cong.), (*Abu—ST*) ; Mrs. Samunder Kanwar (Cong.), (*Ahore*) ; Mrs. Shakuntala Shrivastav (Cong.), (*Amer*) ; Manik Chand Sogani (Cong.), (*Ajmer East*) ; Kishan Motwani (Cong.), (*Ajmer West*) ; Bhairu Lal (Cong.), (*Aklera*) ; Ramanand (CPI), (*Alwar*) ; Girdharilal Vyas (Cong.), (*Asind*) ; Ramcharan (Cong.), (*Aatru—SC*).

Nathu Ram (Cong.), (*Bagidora ST*) ; Hanuman Sahai (Ind.), (*Bairath*) ; Bharatlal (Cong.), (*Baman Vas—ST*) ; Mohan Raj Jain (Cong.), (*Bali*) ; Harideo Joshi (Cong.), (*Banswara*) ; Bishambhar Nath Joshi (Cong.), (*Bandikui*) ; Yaswant Singh (Cong.), (*Banera*) ; Badriprasad Gupta (Cong.), (*Bansur*) ; Shiv Narain (Cong.), (*Baran*) ; Ram Lal (Ind.), (*Bari—SC*) ; Lalit Singh (Cong.), (*Barisadari*) ; Birdhi Chand Jain (Cong.), (*Barmer*) ; Munshi Lal Mahawar (Cong.), (*Bassi—SC*) ; Giriraj Prasad (Cong.), (*Bayana*) ; Keshri Mal (CPI), (*Beawar*) ; Hari Singh (Cong.), (*Begun*) ; Ghasi Ram Yadav (Cong.), (*Behror*) ; Gyan Singh (Cong.), (*Bhadra*) ; Ram Kishan (S.P.), (*Bharatpur*) ; Chiman Singh Bhati (Cong.), (*Bhim*); Bhanwar Lal Bhadada (Cong.), (*Bhilwara*) Bhagwati Devi (Cong), (*Bhinai—SC*) ; Poonam Chand Vishnoi (Cong.), (*Bhinmal*) ; Kaluram Arya (Cong.), (*Bilara—SC*) ; Gopal Joshi (Cong.), (*Bikaner*) ; Rajindra Kumar Bhartiya (Cong.), (*Bundi*).

Jag Mohan Singh (Cong.), (*Chhabra*) ; Rawat Ram (Cong.), (*Chhapar—SC*) ; Abdul Hadi (Cong.), (*Chohtan*) ; Ram Kishore Vyas (Ind.), (*Chomu*) ; Ram Chandra Rot (Cong.), (*Chorasi—ST*) ; Moharsingh Rathod (Cong.), (*Chooru*).

Onkar Lal Chauhan (Cong.), (*Dag—SC*) ; Narayan Singh (Cong.), (*Dantaramgarh*) ; Mool Chand Samaria (Swa.), (*Dausa—ST*) ; Bhoma Ram (Swa.), (*Deedwana*) ;

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* Speaker has no party affiliation.

Karan Singh (Cong.), (*Deeg*); Ram Raghunath Singh (Cong.), (*Degana*); Vacant, (*Deodar*); Dinesh Rai Dangi (Cong.), (*Desuri—S.C*); Banwarilal (Cong.) (*Dholpur*); Mrs. Nagendra Bala (Cong.), (*Digod*); Kamla Beniwal (Cong.), (*Dudu*); Luna Ram (Cong.), (*Dungargarh*); Laxman Singh (Swa.), (*Dungurpur*).

Jhabar Mal (Ind.), (*Fatehpur*); Janardan Singh (Cong.), (*Gandhinagar—Jaipur*); Kedar Nath (SP), (*Ganganagar*); Harish Chandra Paliwal (Cong.), (*Gangapur*); Ganeshlal Paliya (Cong.), (*Gangrar—SC*); Alkha Ram (Cong.), (*Gogunda*); Ganga Ram Chaudhary (Cong.), (*Gudhamalani*); Rameshwar Lal (Ind.), (*Gudha*).

Ramchandra Chaudhary (Cong.), (*Hanumangarh*); Girdhari Lal Bhargava (JS), (*Hawamahal—Jaipur*); Umedi Lal (Ind.), (*Hindaun—SC*); Ramesh Chand (Cong.), (*Hindoli*).

Mool Chand (Cong.), (*Jahazpur—ST*); Bhopal Singh (Cong.), (*Jaisalmer*); Sukh Lal Sencha (Cong.), (*Jaitara*); Sahadeo Sharma (Cong.), (*Jamwaramgarh*); Virdaran Phulvaria (Cong.), (*Jalaur—SC*); Ram Singh Kudi (Ind.), (*Jayal*); Ramprasad Bohara (Cong.), (*Jhalara Patan*); Sumitra Singh (Cong.), (*Jhunjhunu*); Guman Mal Lodha (J.S.), (*Jodhpur*); Mohd. Gaffar Ali (CPI), (*Johari Bazar—Jaipur*); Manoharlal (JS), (*Kaman*).

Shankar Lal Jat (Cong.), (*Kapasan*); Gurdayal Singh Sandhu (S.P.), (*Karanpur*); Brijendra Pal (Ind.), (*Karauli*); Gokal Chand (Cong.), (*Kathumar—SC*); Mrs. Jamuna Solanki (Cong.), (*Kekdi—SC*); Manfulram (Cong.), (*Kesari Singhpur*); Ram Gopal (Cong.), (*Kishan Ganj—ST*); Sampat Ram (Cong.), (*Khairthal—SC*); Ram Gopal Shishodia (Cong.), (*Khandar—SC*); Gopal Singh (Ind.), (*Khandela*); Gauri Shankar Munim (Cong.), (*Khanpur*); Dalpat Singh (Cong.), (*Kharchi*); Vidya Sagar (Cong.), (*Kherwara—ST*); Ramji Lal (Ind.), (*Khetri*); Partap Singh (Swa.), (*Kishangarh*); Shriram Gotewala (Cong.), (*Kishanpole—Jaipur*); Kanta Kathuria (Cong.), (*Kolayat*); Bhuvanesh Chaturvedi (Cong.), (*Kota*); Heera Lal (Cong.), (*Kumbhalgarh*); Man Singh (Ind.), (*Kumbher*); Jithing (S.P.), (*Kushalgarh—ST*).

Keshar Deo (Swa.), (*Lachmangarh—SC*); Deepankar (Cong.), (*Ladnu*); Mithalal Mina (Swa.), (*Lalsot—ST*); Jai Narain Rot (Cong.), (*Lasadia—ST*); Ram Singh Vishnoi (Cong.), (*Looni*); Bhim Sen (Cong.), (*Lunkaransar*).

Bishambhar Dayal Bohara (Ind.), (*Mahuwa*); Mrs. Gauri Pooniya (Cong.), (*Makrana*); Surendra Prasad (Cong.), (*Malpura*); Vijay Singh Rathod (Cong.), (*Mandal*); Shiv Charan Mathur (Cong.), (*Mandalgarh*); Ram Narain Chowdhary (Cong.), (*Mandawa*); Narain Singh (Cong.), (*Masuda*); N. N. Acharya (Ind.), (*Mavli*); Ramlal (Cong.), (*Medta*); Ramsingh Yadav (Cong.), (*Mundwar*); Natha Singh Yadav (Cong.), (*Nadbai*).

Hajee Mohmd. Usman (Cong.), (*Nagaur*); Shankar Singh Rawat (Cong.), (*Nasirabad*); Manoharlal Kothari (Cong.), (*Nathdwara*); Bhanwar Singh Shekhawat (Cong.), (*Nawalgarh*); Rameshwar Lal Chawdhori (Cong.), (*Nawan*); Shreeniwas Sharda (Cong.), (*Neembaheda*); Mala Ram (J.S.), (*Neem-ka-Thana*); Banwarilal (Cong.), (*Niwai—SC*); Bhim Raj (Cong.), (*Nohar*); Chunnilal Indalia (Cong.), (*Nokha—SC*); Ranjit Singh (Cong.), (*Osiyan*).

Madan Kaur (Cong.), (*Pachpadra*); Mahendra Kumar Parmar (Cong.), (*Padwa—ST*); Shankarlal (Cong.), (*Pali*); Nand Lal Bairawa (Cong.), (*Patan—SC*); Jai Kishan Tosawada (Cong.), (*Phagi—SC*); Lala Ram (Cong.), (*Phalasia—ST*); Jethmal Barvad (Cong.), (*Parbatsar—SC*); Mohanlal Chhangani (Cong.), (*Phalodi*); P. K. Choudhari (Cong.) (*Phulera*); Jan Mohd. Khan (Cong.), (*Pidawa*); Shishram Ola (Cong.), (*Pilani*); Gopilal (Cong.). (*Pipalda*); Vithal (SP), (*Pipalkhunt—ST*); Harlal Mina (Cong.), (*Pratap Garh—ST*); Mrs. Prabha Mishra (Cong.), (*Pushkar*).

Bega Ram (Swa.), (*Raisinghnagar—SC*); Pradhuman Singh (Cong.), (*Rajakhera*); Harikishan (Ind.), (*Rajgarh*); Nana Lal (Cong.), (*Raj Samand—SC*); Jujhar Singh (Cong.), (*Ramganj-Mandi*); Shobha Ram (Cong.), (*Ramgarh*); Bhagraj Chowdhary (Cong.), (*Raniwara*); Jethmal Arya (Cong.), (*Reodar—SC*).

Mohar Singh (C.P.M.), (*Sadulpur*); Jawahar Mal (Cong.), (*Sahada*); Kishori Lal (Cong.), (*Salumber*); Bheekha Bhai (Cong.), (*Sagwara*); Birbal (Cong.), (*Sangaria—ST*); Raghunath Vishnoi (Cong.), (*Sanchore*); Devi Lal Mina (Cong.), (*Sarada—ST*); Chandan Mal Vaidya (Cong.), (*Sardar Shahar*); Amritlal (Cong.), (*Sardarpura*); Ramkumar (Cong.), (*Sapotara—ST*); Farooq Hasan (Cong.), (*Sawai Madhopur*); Bhura Raigar (Cong.), (*Shahpura—SC*); Khet Singh Rathod (Cong.), (*Shergarh*); Hukam Singh (Cong.), (*Shiv*); Gordhan Singh (Swa.), (*Sikar*); Ramchandra (Cong.), (*Sikrai—ST*); Shanti Lal Kothari (Cong.), (*Sirohi*); Jesa Ram (Cong.), (*Siwana—SC*); Pukh Raj Kalani (Cong.), (*Sojat*); Sanwar Mal Maur (Cong.), (*Srimadhopur*); Phool Chand Jain (Cong.), (*Sujanagarh*); Sajjan Singh (Cong.), (*Sumerpur*); Sunder Lal (Cong.), (*Surajgarh—SC*); Yogendra Nath Handa (CPI), (*Suratgarh*).

Laxmi Narain (Swa.), (*Thanagazi*); Rati Ram (C.P.I.), (*Tijara*); Chet Ram (Cong.), (*Toda Bhim—ST*); Chatarbhooj (Cong.), (*Todaraisingh*); Ajeet Singh (J.S.), (*Tonk*).

Bhanu Kumar Shastri (J.S.), (*Udaipur*); Rao Raja Rajendra Singh (Cong.), (*Uniyara*).

Gulab Singh Shaktawat (Cong.), (*Vallabhnagar*).

Mrs. Usha Prakash (Cong.), (*Weir*).

TAMIL NADU LEGISLATIVE ASSEMBLY

Speaker : Palavar K. Govindan.

Deputy Speaker : N. Ganapathi.

Total Seats : 234 ; Nominated 1 ; Electorate : 23,064,985; Votes polled: 16,567,760 ; Invalid votes: 810,661. No. of Women members: 6.

Estimate of Party position : D.M.K. 169 ; Congress-O 13 ; A.D.M.K. 16 ; Congress 6 ; Swatantra 5 ; Communist Party of India 5 ; Forward Block 7 ; Muslim League 6 ; Tamil Arasu Kazhagam 1 ; Independents 2 ; Tamil Nadu Communist Party 2; Thazthapattor Munnetra Kazhagam 2; Nominated 1; Vacant 1.

V. Balasundaram (D.M.K.), (*Acharapakkam — S. C.*); K. Rajamanickam (D.M.K.), (*Aduthurai*); K. V. Subbiah (D.M.K.), (*Alangudi*); V. Aladi Aruna (D.M.K.), (*Alangulam*); S. Sangumuthu Tevar (Cong.-O), (*Ambasamudram*); M. Panneerselvam (D.M.K.), (*Ambur—S.C.*); E. M. Natarajan (D.M.K.), (*Andhiyur*); S. Sadasivam (D.M.K.), (*Andimadam*); N. V. Gurusami (Swa.), (*Andipatti*); S. Ramanathan (D.M.K.), (*Arantangi*); V. M. Abdul Jabbar (M.L.), (*Aravakurichi*); N. Veerasami (D.M.K.), (*Arcot*); G. Sivaperumal (D.M.K.), (*Ariyalur*); N. S. Balaraman (D.M.K.), (*Arkonam*); A. C. Narasimhan (D.M.K.), (*Arni*); Sowdisundara Bharathi (F.B.), (*Aruppukkottai*); A. M. T. Nachiappan (D.M.K.), (*Athoor*); V. Palanivel (D.M.K.), (*Attur*); T. O. Periaswami (D.M.K.), (*Avanashi*); M. R. Kannan (D.M.K.), (*Basin Bridge*); A. M. Raja (D.M.K.), (*Bhavani*); V. K. Ramarasan

(D.M.K.), (*Bhavanisagar—S.C.*); M. A. Abusali (M.L.), (*Bhuvanagiri*); M. Surulivel (D.M.K.), (*Bodinayakanur*).

C. Pandurangam (D.M.K.), (*Chengam—S.C.*); D. S. A. Sivaprakasam (Swat.), (*Cheranmahadevi*); K. Govindan (D.M.K.), (*Cheyyar*); P. Ponchokkalingam (D.M.K.), (*Chidambaram*); C. G. Viswanathan (D.M.K.), (*Chingleput*); K. Ranganathan (D.M.K.), (*Coimbatore—East*); C. Aranganayakam (A.D.M.K.), (*Coimbatore—West*); A. Pauliah (Cong.–O), (*Colachel*); J. Karunainathan (D.M.K.), (*Coonoor*); R. Govindarasan (D.M.K.), (*Cuddalore*); K. P. Gopal (Cong.–O), (*Cumbum*); Smt. V. P. Palaniammal (D.M.K.), (*Dharapuram*); R. Chinnaswamy (D.M.K.), (*Dharmapuri*); O. N. Sundaram (Cong.–O), (*Dindigul*); A. Arumugam (D.M.K.), (*Edappadi*); Arangannal Rama (D.M.K.); (*Egmore*); M. Subramanyam (D.M.K.), (*Erode*); Govindarajan Durai (A.D.M.K.), (*Gandarvakottai*); A. Karuppiah (D.M.K.), (*Gangaikondan—S.C.*); S. Sahadevan (D.M.K.), (*Gingee*); Dr. S. M. Palaniappan (D.M.K.), (*Gobichettipalayam*); K. H. Bomman (Swa.), (*Gudalur—S.C.*); E. K. Duraisami (D.M.K.), (*Gudiyattam*); K. Vezhavendan (D.M.K.), (*Gummidipundi*); A. M. Mohideen (M.L.), (*Harbour*); Dr. S. A. Chinnaraju (D.M.K.), (*Harur—S.C.*); B. Venkataswamy (Swa.), (*Hosur*); V. Malaikannan (D.M.K.), (*Ilayangudi*); A. Chinnasamy (A.D.M.K.), (*Jayankondan—S.C.*).

C. Ramalingam (D.M.K.), (*Kadaladi—S.C.*); A. Parandaman (D.M.K.), (*Kadambathur*); K. K. Muthia (Cong.-O), (*Kadavur*); A. R. Subbiah (D.M.K.), (*Kadayanallur*); S. Murugaiyan (D.M.K.), (*Kalasapakkam*); D. Kesavalu (D.M.K.), (*Kullakurichi*); C. V. M. Annamalai (D.M.K.), (*Kancheepuram*); M. Raman (D.M.K.), (*Kandamangalam—S.C.*); Kovaichezhian (A.D.M.K.), (*Kangeyam*); Thoppur Thiruvengadam (D.M.K.), (*Kaniyambadi*); V. K. Rajah Pillai (D.M.K.), (*Kanyakumari*); C. V. Velappan (A.D.M.K.), (*Kapilamalai*); C. T. Chidambaram (D.M.K.), (*Karaikudi*); A. R. Perumal (F.B.), (*Kariappatti*); S. Nallaswamy (D.M.K.), (*Karur*); Durai Murugan (D.M.K.), (*Katpadi*); S. Perumal (D.M.K.), (*Kattumannarkoil*); V. C. Govindaswami (D.M.K.), (*Kaveripattinam*); N. Dennis (Cong.-O), (*Killiyur*); M. Kannapan (D.M.K.), (*Kinattukadavu*); K. Periasami (D.M.K.), (*Kodavasal*); S. Alagarsamy (C.P.I.), (*Koilpatti*); A. K. Subbiah (T.N. Com.), (*Kottur—S.C.*); C. Manniappan (D.M.K.), (*Krishnagiri*); P. Soundara Pandian (A.D.M.K.), (*Krishnarayapuram—S.C.*); M. Kandaswamy (D.M.K.), (*Kulithalai*); N. Kasiraman (Cong.), (*Kumbakonam*); M. Gopal (D.M.K.), (*Kunnathur—S.C.*); N. Rajangam (D.M.K.), (*Kurinjipadi—S.C.*); S. Ganesan (D.M.K.), (*Kuttalam*).

V. N. Muthamil Selvan (D.M.K.), (*Lalgudi*); K. Thiruppathi (D.M.K.), (*Madurai—Central*); K. S. Kuppal Ramakrishnan (D.M.K.), (*Madurai East*); K. T. K. Thangamani (C.P.I.), (*Madurai—West*); T. Soniah (D.M.K.), (*Manamadurai*); G. Jabamalai (D.M.K.), (*Mangalur—S.C.*); K. Balakrishnan (D.M.K.), (*Mannarkudi*); C. Arumugam (D.M.K.), (*Mathuranthagam*); N. Kittappa (D.M.K.), (*Mayuram*); R. R. Munuswami (D.M.K.), (*Melamalayanur*); S. Mohd. Kother Mohideen (M.L.), (*Melappalayam*); M. Andi Ambalam (Cong.-O), (*Melur–North*); O. P. Raman (D.M.K.), (*Melur–South S.C.*); M. C. Thooyamani (D.M.K.), (*Mettupalayam*); M. Surendran (Cong.), (*Mettur*); M. Chinnaswami (D.M.K.), (*Modakkurichi*); Smt. A. G. Padmavathi (D.M.K.), (*Mugaiyur*); Kadher Batcha alias Vellaichamy (D.M.K.), (*Mudukulathur*); P. S. Muthuselvan (D.M.K.), (*Musiri*); Smt. T. N. Anandanayaki (Cong.), (*Mylapore*); A. Rajamanickam (D.M.K.), (*Nagapattinam*); M. Moses (Swa.), (*Nagercoil*); M. U. Palanivelan (D.M.K.), (*Namakkal*); T. Ganapathi (D.M.K.), (*Nanguneri*); A. Devendran (D.M.K.), (*Nannilam—S.C.*); T. C. Thimmaraya Gounder (D.M.K.), (*Natrampalli*); V. Krishnamurthi (D.M.K.), (*Nellikuppam*); A. Muniandi (D.M.K.), (*Nilakkottai—S.C.*); N. Nachimuthu (D.M.K.), (*Oddanchatram*); V. Chelladurai (D.M.K.), (*Omalur–S.C.*); M. Devarajan (D.M.K.), (*Ootacamund*); L. Ganesan (D.M.K.), (*Orathanad*); M. Muthiah (F.B.), (*Ottapidaram–S.C.*).

A. Swamidas (Cong.-O), (*Padmanabhapuram*); M. V. Karivengadam (D.M.K.), (*Palacode*); C. Palaniswamy (D.M.K.), (*Palani—S.C.*); K. N. Kumaraswamy (Cong.), (*Palladam*); T. Ponnumalai (D.M.K.), (*Panamarathupatti*); S. Ramachandran (D.M.K.), (*Panruti*); N. Ganapathy (D.M.K.), (*Papanasam*); T. K. Siraimeettan (D.M.K.), (*Paramakudi—S.C.*); Dr. H. V. Hande (A.D.M.K.), (*Park Town*); A. R. Marimuthu (Cong.), (*Pattukottai*); N. Manickkam (D.M.K.), (*Pennagaram*); J. S. Raju (D.M.K.), (*Perambalur—S.C.*); Dr. Satyavani Muthu (T.M.K.), (*Perambur—S.C.*); P. Ettiappan (D.M.K.), (*Pernamallur*); N. Krishnan (D.M.K.), (*Peranamapattu—S.C.*); K. Chelliah (A.D.M.K.), (*Peravurani*); Anbucheliyan (D.M.K.), (*Periakulam*); N. K. Palaniswamy (C.P.I.), (*Perunthurai*); N. Marudachalam (T.N. Com), (*Perur—S.C.*); A. P. Shanmughasundaram (D.M.K.), (*Pollachi*); T. P. Srinivasan (D.M.K.), (*Polur*); N. Palaniswami (D.M.K.), (*Pongalur*); P. Nagalingam (D.M.K.), (*Ponneri—S.C.*); M. Satyamoorthy (Cong.-O), (*Pudukkotai*); K. Anbazhagan (D.M.K.), (*Purasawalkam*).

V. Kartheesan (D.M.K.), (*Radhapuram*); K. Suppu (D.M.K.), (*Rajapalayam*); M. S. K. Sathiyendran (D.M.K.), (*Ramanathapuram*); K. A. Wahab (M.L.), (*Ranipet*); R. Nainamalai (D.M.K.), (*Rasipuram*); N. Dharmalingam (D.M.K.), (*Rishivandiyam—S.C.*); M. Karunanidhi (D.M.K.), (*Saidapet*); K. Jayaraman (D.M.K.), (*Salem I*); K. Rajaram (D.M.K.), (*Salem II*); S. Subbiah (D.M.K.), (*Sankarankoil—S.C.*); V. Muthu (D.M.K.), (*Sankari—S.C.*); N. Nachiyappan (D.M.K.), (*Sankarapuram*); S. K. Subramaniam (D.M.K.), (*Satyamangalam*); K. P. Kandaswamy (D.M.K.), (*Sattangulam*); S. Alagu Thevar (F.B.), (*Sattur*); V. Thavamani Thevar (F.B.), (*Sedapatti*); T. V. Sampath (D.M.K.), (*Sembanarkoil*); Chinnavelaiyan (D.M.K.), (*Sendamangalam—S.T.*); P. S. Manian (D.M.K.), (*Sholavandan*); A. M. Ponnurangam (Cong.-O), (*Sholinghur*); A. Subramaniam (Cong.), (*Singanallur*); S. Vadivel (C.P.I.), (*Sirkali—S.C.*); S. Sethuraman (D.M.K.), (*Sivaganga*); K. Kalimuthu (A.D.M.K.), (*Sivakasi*); D. Rajarathnam (D.M.K.), (*Sriperumbudur*); Smt. Jyoti Venkatachellam (Cong.-O), (*Srirangam — S.C.*); Si. Pa. Adithanar (D.M.K.), (*Srivaikuntam*); K. Andi *alias* Guruswami (D.M.K.), (*Srivilliputhur—S.C.*); M. G. Ramachandran (A.D.M.K.), (*St. Thomas Mount*).

M. Marimuthu (D.M.K.), (*Talavasal—S.C.*); M. Paramasivam (D.M.K.), (*Taramangalam*); K. M. Kathiravan *alias* Shamsudeen (D.M.K.), (*Tenkasi*); M. S. Radhakrishnan (D.M.K.), (*Thandarambattu*); S. Natarajan (D.M.K.), (*Thanjavur*); Palanivel Rajan (D.M.K.), (*Theni*); K. M. Subramanyam (Ind.), (*Thiagarayanagar*); M. C. A. Rathinaswamy Thevar (F.B.), (*Thirumangalam*); P. R. Shanmugam (D.M.K.), (*Thiruvadanai*); C. Manali Kandasami (T. N. Com.), (*Thiruthuraipundi*); G. Ilangovan (D.M.K.), (*Thiruvaiyaru*); K. Kamatchi (D.M.K.), (*Thiruverumbur*); R. Manickavasakam (D.M.K.), (*Thondamuthur*); S. K. Vadivel (D.M.K.), (*Thottiyam*); K. A. Mathiazhagan (D.M.K.), (*Thousand Lights*); G. Rajaram (D.M.K.), (*Tindivanam*); Edmund Fernando (A.D.M.K.), (*Tiruchendur*); S. Kandappan (D.M.K.), (*Tiruchengode*); V. Krishnamurthi (D.M.K.), (*Tiruchirappalli I*); A. P. Dharmalingam (D.M.K.), (*Tiruchirappalli II*); A. S. Kumaraswamy (D.M.K.), (*Tirukkoilur*); A. Thiagarajan (D.M.K.), (*Tirumayam*); P. Padmanabhan (D.M.K.), (*Tirunelveli*); C. Kaverimaniam (D.M.K.), (*Tirupparankundram*); S. Madhavan (D.M.K.), (*Tiruppathur*); G. Ramaswamy (D.M.K.), (*Tiruppattur*); Munu Adhi

(A.D.M.K.), (*Tirupporur*); S. Doraiswamy (D.M.K.), (*Tiruppur*); E. S. Thyagarajan (T.A.K.), (*Tiruthani*); S. M. Dorairaj (A.D.M.K.), (*Tiruvallur—S.C.*); P. U. Shanmugham (D.M.K.), (*Tiruvannamalai*); T. M. Karunanidhi (D.M.K.), (*Tiruvarur—S.C.*); J. James (Cong.-O), (*Tiruvattar*); M. V. Narayanaswamy (D.M.K.), (*Tiruvottiyur*); V. R. Nedunchezhian (D.M.K.), (*Triplicane*); K. R. Ramalingam (D.M.K.), (Tuticorin).

K. S. Kothandaramayya (Ind.), (*Uddanapalli*); S. J. Sadiq Pasha (D.M.K.), (*Udumalpet*); V. Subramaniam (D.M.K.), (*Ulundurpet*); T. P. Alagamuthu (D.M.K.), (*Uppiliapuram*); K. Kandaswamy (F.B.), (*Usilampatti*); K. R. Krishnan (D.M.K.), (*Uthangarai*); K. M. Erasagopal (D.M.K.), (*Utteramerur*); K. Nagarajan (D.M.K.), (*Vadamadurai*); N. Somasundaram (D.M.K.), (*Valangaman—S.C.*); E. Ramaswami (D.M.K.), (*Valparai*); M. A. Latheef (M.L.), (*Vaniambadi*); N. Muthuvel (D.M.K.), (*Vanur—S.C.*); K. Palanivelan (D.M.K.), (*Varahur*); A. Velladurai (D.M.K.), (*Vasudevanallur*); M. Meenakshisundaram (D.M.K.), (*Vedaranyam*); P. Muthuswamy (D.M.K.), (*Vedasandur*); Vacant; (*Veerapandi*); M. Palaniswamy (D.M.K.), (*Vellakoil*); M. P. Sarathi (D.M.K.), (*Vellore*); M. Rathinasabhapathy (D.M.K.), (*Vilathikulam*); R. Ponnappa Nadar (Cong.-O), (*Vilavankode*); M. Shanmugham (D.M.K.), (*Vilupuram*); V. S. Ilanchezhian (D.M.K.), (*Viralimalai*); P. Sreenivasan (A.D.M.K.), (*Virudunagar*); M. Salvaraj (D.M.K.), (*Vridhachalam*); V. Rajagopal (D.M.K.), (*Wandiwash—S.C.*); M. Vedachalam (D.M.K.), (*Washermanpet*); V. Chinnaswami (D.M.K.), (*Yarcaudi—S.T.*); Smt. Alda M. Flower (*Nominated*).

TAMIL NADU LEGISLATIVE COUNCIL

Chairman : C. P. Chitrarasu ; *Deputy Chairman :* M. P. Sivagananam ; *Secretary :* G. M. Alagarswamy.

An estimate of party position in the council is as follows : Dravida Munnetra Kazhagam 31 ; Congress (O) 9 ; Congress 1 ; United Party 2 ; Indian Union Muslim League 2 ; Toilers Commonweal Party 1 ; Swatantra 2 ; Independents 8 ; Tamil Arasu Kazhagam 2 ; Forward Block 1 ; No. of woman member 1 ; Vacant 1.

Legislative Assembly Constituency (21) : K. S. Abdul Wahab (I.U.M.L.); M. Arumugasami (Cong.); C. P. Chitrarasu (D.M.K.); D. V. D'Monte (Ind.); George Komagan (D.M.K.); Nagore E. M. Hanita (D.M.K.); Dravidamani (D.M.K.); C. R. Kolappa (D.M.K.); M. Masilamani (D.M.K.); S. Muthu (D.M.K.); T. V. Muthukrishnan (D.M.K.); Vacant ; Mannai P. Narayanaswamy (D.M.K.); Ilamparithi (T.M.K.); A. Thangavelu (D.M.K.); C. V. Rajagopal (D.M.K.); S. A. Rajamanickam (D.M.K.); P. Yellamanda (D.M.K.); C. Thamizarasi (D.M.K.).

Local Authorities Constituency (21) : Vacant (*Madras*); V. Venga (D.M.K.), (*Chingleput*); M. Ramanathan (D.M.K.), (*Coimbatore-Nilgiri*); S. C. Sengottuvelappa Gounder (Cong. (O)), (*Coimbatore-Nilgiris*); N. Wilson Apollos (Cong. (O)), (*Kanyakumari*); Ayyanan Ambalam (Ind.), (*Madurai*); K. Rajaram (Cong. (O)), (*Madurai*); L. Balaraman (Cong. (O)), (*North Arcot*); V. M. Devaraj (D.M.K.), (*North Arcot*); S. Ramakrishna Thevar (Cong. (O)), (*Ramanathapuram*); V. R. Pariannan (D.M.K.), (*Salem-Dharmapuri*); S. S. Ramaswamy Padayatchi (T.C.W.P.), (*South Arcot*); A. Balasubramaniam (Cong. (O)), (*Salem-Darmapuri*); V. Thangapandian (D.M.K.), (*Ramanathapuram*); Era, Sambasivan (D.M.K.), (*South-Arcot*); K. S. Mani (D.M.K.), (*Thanjavur*); N. Sundaresa Thewar (Cong. (O)), (*Thanjavur*); Y. Venkateswara Dikshidar (Cong. (O)), (*Tiruchirapalli*); M. K. D. Natarajan (D.M.K.), (*Tiruchirapalli*); S. T. Adityan (D.M.K.), (*Tirunelveli*); S. Vellapandian (Cong. (O)), (*Tirunelveli*).

Graduates' Constituency (6) : S. Narayanaswamy (Swa.), (*Madras Dist.*); G. Vasantha Pai (Ind.), (*Madras Dist.*); G. Swaminathan (Swa.), (*Madras East-Central*); A. R. Damodaran (United Party), (*Madras North*); D. Santosham (United Party), (*Madras South*); G. R. Damodaran (Ind.), (*Madras West-Central*).

Teachers' Constituency (6) : K. Arivazhagan (D.M.K.) (*Madras Chingleput*); P. R. Thomas (Ind.), (*Madurai-Ramanathapuram*); Pulavar O. Arivudai Nambi (D.M.K.), (*North Arcot-South Arcot*); S. Muthuswamy (Ind.), (*Salem-Dharamapuri-Coimbatore-Nilgiris*); K. S. Ganapathi (Ind.), (*Thanjavur-Tiruchirapalli*); M. Sankaralingam Pillai (D.M.K.), (*Tirunelveli-Kanyakumari*).

Nominated (9): M. M. Baker (I.U.M.L.), A. K. Vilwam (D.M.K.); Kundrakkudi Adigalar (Ind.), Ku. Ma. Balasubramaniam (T.A.K.), Rama Subbaiya (D.M.K.), M. P. Sivagananam (T.A.K.), S. S. Themarasu (D.M.K.); H. L. Murugesan (D.M.K.); Russel Raj (D.M.K.).

TRIPURA LEGISLATIVE ASSEMBLY

Speaker : Manindralal Bhowmik.
Dy. Speaker : Usharanjan Sen.
Seats : 60.
Electorate : 766,093.
Party position : Congress : 41 ; C.P.I. (M) : 16 ; Independent : 2; C.P.I. : 1 ; No. of women members : 2.

Ajoy Biswas (Ind.), (*Agartala Town–I*); Krishnadas Bhattacharjee (Cong.), (*Agartala Town–II*); Sukhamoy Sen Gupta (Cong.), (*Agartala Town–III*); Bulu Kuki (C.P.I. (M)), (*Ampinagar–ST*); Tarit Mohan Das Gupta (Cong.), (*Anandanagar*); Nripendra Chakraborty (C.P.I. (M)), (*Ashrambari*); Prafulla Kumar Das (Cong.), (*Bamutia—SC*); Smt. Basana Chakraborty (Cong.), (*Barjala*); Jitendra Lal Das (C.P.I.), (*Belonia*); Subal Chandra Biswas (Cong.), (*Bilashpur–SC*); Susil Ranjan Saha (Cong.), (*Birganj*); Samir Ranjan Barman (Cong.), (*Bishalgarh*); Sudhanwa Deb Barma (C.P.I. (M)), (*Bishramganj-S.T.*); Monchar Ali (Cong.), (*Boxanagar*).

Manindra Lal Bhowmik (Cong.), (*Chandipur*); Niranjan Deb (C.P.I. (M)), (*Charilam–ST*); Purna Mohan Tripura (C.P.I. (M)), (*Chhawmanu–ST*); Bajuban Riyan (C.P.I. (M)), (*Chellagong–ST*); Abdul Wazid (Cong.), (*Deochhera*); Samar Choudhury (C.P.I. (M)), (*Dhanpur*); Amarendra Sarma (Ind.), (*Dharmanagar*); Pakhi Tripura (C.P.I. (M)), (*Dumburnagar–ST*); Radhika Ranjan Gupta (Cong.), (*Fatikroy*); Chandrasekhar Dutta (Cong.), (*Hrishyamukh*); Naresh Roy (Cong.), (*Ishanchandranagar*); Monoranjan Nath (Cong.), (*Jubarajnagar*).

Benoy Bhusan Banerjee (Cong.), (*Kadamtala*); Moulana Abdul Latif (Cong.), (*Kailashahar*); Ajit Ranjan Ghosh (Cong.),(*Kakraban*); Bidya Chandra Deb Barma (C.P.I. (M)), (*Kalyanpur–ST*); Sunil Chandra Dutta (Cong.), (*Kamalpur*); Bichitra Mohan Saha (Cong.), (*Kamalasagar*); Raimani Riang Choudhury (Cong.), (*Kanchanpur–ST*); Jadu Prasanna Bhattacharjee (Cong.), (*Khowai*); Mongchabai Mog (Cong.), (*Kulaihower–ST*); Asok Kumar Bhattacharjee (Cong.), (*Kunjaban*).

Hangshadhwaz Dewan (Cong.), (*Longai–ST*); Jatindra Kr. Majumdar (Cong.), (*Majlispur*); Kalidas Deb Barma

(C.P.I. (M)), (*Mandai Bazar–ST*); Hari Charan Choudhury (Cong.), (*Manu–ST*); Nishikanta Sarkar (Cong.), (*Matarbari*); Radharaman Deb Nath (C.P.I. (M)), (*Mohanpur*); Ananta Hari Jamatia (Cong.), (*Moharcherra–ST*); Achaichhi Mog (Cong.), (*Muhuripur–ST*); Benode Behari Das (Cong.), (*Nalchhar–SC*); Sailesh Chandra Some (Cong.), (*Old Agartala*); Gopinath Tripura (Cong.), (*Pebiacherra–ST*); Madhu Sudan Das (Cong.), (*Pratapgarh–SC*); Manindra Deb Barma (C.P.I. (M)), (*Promodnagar–ST*).

Usha Ranjan Sen (Cong.), (*Radhakishorepur*); Smt. Lakshmi Nag (Cong.), (*Rajnagar*); Kalipada Banerjee (Cong.), (*Sabroom*); Tapash Dey (Cong.), (*Salgarh*); Bhadramani Deb Barma (C.P.I. (M)), (*Simna–ST*); Debendra Kishore Choudhury (Cong.), (*Sonamura*); Radharaman Nath (Cong.), (*Sonicherra*); Kshitish Chandra Das (Cong.), (*Surma–SC*); Gunapada Jamatia (C.P.I. (M)), (*Takerjala–ST*); Anil Sarker (C.P.I. (M)), (*Teliamura–SC*); Abhiram Deb Barma (C.P.I. (M)), (*Uttar Debendranagar–ST*).

UTTAR PRADESH VIDHAN SABHA

Speaker : Vasudeo Singh.

Dy. Speaker : Sheonath Singh.

No. of Constituencies : 425.

An estimate of party position is as follows:

Congress 214 ; Bharatiya Lok Dal 99 ; Bhartya Kranti Dal members who are not members of Bhartiya Lok Dal 6 ; Jan Sangh 59 ; Communist Party of India 16 ; Congress (O) 10 : Socialist Party 5 ; Communist Party of India (Marxist) 2 ; Swatantra 1 ; Independents & Others 11 ; Nominated 1 ; Vacant 1 ; Women Members 16.

Kranti Kumar (Cong.), (*Afzalgarh*); Bikram Singh (BLD), (*Agota*); Krishna Vir Singh Kaushal (Cong.), (*Agra Cantt.*); Dr. Prakash Narain Gupta (Cong.), (*Agra East*); Gulab Sahra (Cong.), (*Agra West*); Manni Lal (Cong.), (*Ahirouri—S.C.*); Gauri Shanker (Cong.), (*Ajitmal—S.C.*); Priyadarsi Jaitley (Cong.), (*Akbarpur*); Lutairi Singh (Cong.), (*Aliganj*); Inder Pal Singh (J.S.), (*Aligarh*); Dr. Rajendra Kumari Bajpai (Cong.), (*Allahabad North*); Satya Prakash Malviya (B.L.D.), (*Allahabad South*); Tirath Ram Kohli (J.S.), (*Allahabad West*); Miss Rama Pant (Cong.), (*Almora*); Rananjai Singh (Cong.), (*Ameti*); Mohammed Hayat (Cong.), (*Amroha*); Khacheru Singh (B.L.D.), (*Anupshahar*); Sham Behari Singh (J.S.), (*Aonla*); Kalyan Singh (J.S.), (*Arauli*); Abdur Rehman Khan Nashtar (Cong.), (*Aryanagar*); Jang Bahadur (Cong.) (*Atraulia*); Girija Shankar Pathak (B.L.D.)(*Aurai*); Bharat Singh Chauhan (BLD), (*Auraiya*); Ved Prakash Agarwal (J.S.), (*Ayodhya*); Vishram Rai (B.L.D.), (*Azamgarh*).

Dev Kumar (C.P.I.), (*Baberu*); Bhagwati Dayal (J.S.), (*Babina—S.C.*); Ram Dularey (Cong.), (*Bachrawan—S.C.*); Smt. Saraswati Tamta (Cong.), (*Bageshwar—S.C.*); Satya Pal Malik (B.L.D.), (*Baghpat*); Virendra Verma (Cong.), (*Boghra*); Raj Mahendra Ripudaman Singh (Swa.), (*Bah*); Ram Murti (Cong. (O)), (*Baheri*); Sultan Singh (B.L.D.), (*Bahjoi*); Kedarnath Agarwal (Cong.), (*Bahraich*); Kashinath Mishra (Cong.), (*Ballia*); Man Bahadur Singh (Cong.), (*Balrampur*), Jamuna Prasad Bose (S.P.), (*Banda*); Raghuvendra Singh (B.L.D.), (*Bangermau*); Bachha Pathak (Cong.), (*Bansdih*); Mahabir Prasad (Cong.), (*Bangsgaon*); Madhav Prasad Tripati (J.S.), (*Bansi*); H. N. Bahuguna (Cong.), (*Bara*); Surendra Singh (Cong.), (*Barauli*); Surendra Prasad Misra (Cong.), (*Barhaj*); Badam Singh (J.S.), (*Bareilly Cantt.*); Satya Prakash (J.S.), (*Bareilly City*); Kishan Lal (J.S.), (*Barkhera—S.C.*); Dharamvir Singh (B.L.D.), (*Barnawa*); Gorelal (Cong. O), (*Barthana*).

Naju Ram (B.L.D.), (*Barsathi*); Smt. Shyama Devi (Cong.), (*Basti*); Puran Lal (J.S.), (*Bawan—S.C.*); Uma Nath (J.S.), (*Bayalasi*); Ganga Swarup Bhatnagar (Cong.), (*Behta*); Asrar Ahmed (B.L.D.), (*Benawar*); Angnu Lal (J.S.), (*Beniganj—S.C.*); Ram Nihor (B.L.D.), (*Bh[illegible]dohi*); Bhagwati Singh Visharad (Cong.), (*Bhagwantnagar*); Balram Singh Yadav (Cong.), (*Bharthana*); Raghu Raj Singh (Cong.), (*Bahtpar Rani*); Puran Lal (J.S.), (*Bhawan—S.C.*); Kamala Prasad Verma (J.S.), (*Bhinga*); Kesari Lal (B.L.D.), (*Bhoganipura—S.C.*); Harish Kumar Gangawar (J.S.), (*Bhojipura*); Jagdish Narain Tripathi (C.P.I.), (*Bhongaon*); Gajender Singh (Cong.), (*Bidhuna*); Ram Swarup Bhartiya (B.L.D.), (*Bihar—S.C.*); Azizur Rehman (Cong.), (*Bijnor*); Sitaram Nishad (B.K.D.), (*Bikapur*); Sharda Bhakt Singh (J.S.), (*Bilgram*); Motilal Dehlvi (B.L.D.), (*Bilhaur—S.C.*); Sohan-Lal (B.L.D.) (*Bilaspur*); Sohan Lal (J.S.), (*Bilsi—S.C.*); Mohd. Asrar (B.L.D.), (*Binauar*); Rama Kant Dwivedi Cong.), (*Bindaki*); Smt. Shiv Kumari Dubey (Cong.), (*Birapur*); Tej Bahadur (Cong.), (*Bisalpur*); Kishan Vir Singh (B.L.D.), (*Bisauli*); G. P. Mehrotra (J.S.), (*Biswan*); Gajendra Singh (Cong.), (*Bithuna*); Purshottam Lal (Cong.), (*Budaun*); Satyavir Singh (J.S.), (*Buland Shahr*); Ramlakhan (Cong.), (*Captainganj*); Kanhay Lal Sonkar (Cong.), (*Chail—S.C.*); Bechan Ram (Cong.), (*Chakia*); Gulab Singh (Cong.), (*Chakrata*); Kunwar Sripal Singh (J.S.), (*Chanda*); Ram Pyare Tiwar (B.L.D.), (*Chandauli*); Devi Singh (B.L.D.), (*Chandausi—S.C.*).

Mangoor Singh (B.L.D.), (*Chandpur*); Dharam Vir Singh (B.L.D.), (*Chandpur*); Purshottam Das (Cong.), (*Chanve—S.C.*); Charan Singh (B.L.D.), (*Chaprauli*); Gajadhar Prasad (J.S.), (*Charda*); Kashi Prasad (B.L.D.), (*Charkhari*); Nand Ram (B.L.D.), (*Charthwal—S.C.*); Radha Charan Singh (B.L.D.), (*Chhata*); Ram Prakash Tripathi (J.S.), (*Chibramau*); Jagannath Chaudhary (Cong.), (*Chilkahar*); Bhrigu Nath (Cong.), (*Chilupar*); Udai Nath (B.L.D.), (*Chiraigaon*); J. Awasthi (Cong.), (*Chaubepur*); Om Prakash Singh (J.S.), (*Chunar*); Raghu Rai Singh (Cong.), (*Colonelganj*); Tej Singh (Cong. (O)), (*Dadri*); Haldar Prasad (Cong.), (*Dadraul*); Girja Kishoor Misra (Ind.), (*Dadraul*); Munnu Lal Dwivedi (Cong.), (*Dalmau*); Beni Prasad (B.L.D.), (*Daryabad*); Smt. Santosh Kumari (Cong.), (*Dataganj*); Multan Singh (B.L.D.), (*Dayalbagh*); Himmat Singh (J.S.); (*Debai*); B. D. Saklani (Cong.), (*Dehra Dun*); Banwari (Cong.), (*Deobi*); Mahavir Singh (Cong.), (*Deoband*); Govind Prasad Gairola (Cong.), (*Deoprayag*); Krishna Raj (B.L.D.), (*Deoria*); Rampal Singh Yadava (S.P.), (*Derapur*); Sattar Ahmed (Cong.), (*Dhampur*); Brij Nath (B.L.D.), (*Dhanapur*); Saraswati Pratap Singh (Ind.), (*Dhaurehra*); Chander Shekhar (Cong.), (*Dhuriapur*); G. D. Ojha (Cong.), (*Didihat*); Ramji Singh (B.L.D.), (*Dildarnagar*); Ram Pati (J.S.), (*Dixir—S.C.*); Banvari Ram (Cong.), (*Doabe*); Kazi Jalil Abbasi (Cong.), (*Domariaganj*); Shiv Sampati Ram (J.S.), (*Dudhi—S.C.*); Ganga Prasad (Cong.—O), (*Etah*); Smt Sukhda Misra (Cong.), (*Etawah*); Shivcharan Lal (B.L.D.), (*Etmadpur*); Lakshmi Narayan (C.P.I.), (*Fahernda*); Ram Harsh Chaudhury (Cong.), (*Fakkarpur*); Hem Raj (B.L.D.), (*Faridpur—S.C.*); Bimal Prasad (Cong.), (*Farukhabad*); Dauneria Rajendra Prasad (Cong.), (*Fatehabad*); Nanehlal (B.L.D.), (*Fatehpur—S.C.*); Salauddin Usmani (Cong.), (*Fatehpur*).

Smt. Champawati (Cong.), (*Fatehpur-Sikri*); Ramayan Rai (Cong.), (*Fazilnagar*); Mohd. Ayub Khan (M.L.), (*Firozabad*); Vijaypal Singh (J.S.), (*Gainsari*); Baldeb (B.L.D.), (*Gangapur*); Mani Ram (B.L.D.), (*Gangeshwari*); Babu Singh (B.L.D.), (*Gangiri*); Ranjit Singh Jaidev (Cong.), (*Garautha*); Manjur Ahmad (Cong.), (*Garmukteshwar*); Anirudh Rai (Cong.), (*Gauri Bazar*); (Cong.), (*Generalganj*); Ramshiromani Dube (Cong.), (*Ghadwara*); Sheo Nath Singh Kushwaha (S.P.), (*Ghatampur*); Pyarelal (Cong.), (*Ghaziabad*); Shah Abul Faiz (B.L.D.), (*Ghazipur*); Rabhubir Singh (B.L.D.), (*Ghiror*); Zafar Azami (C.P.I.), (*Ghosi*); Smt. Gayatri Devi (B.L.D.), (*Gokul*); Triveni Sahai (J.S.), (*Gonda*); Samadhar (B.L.D.), (*Gopalpur*); Avadesh Lumar (J.S.), (*Gorakhpur*); Gyanender Swarup (B.L.D.), (*Goverdhan—S.C.*); Sant Singh Yusuf (C.P.I.), (*Govindnagar*); Jugal Kishore (B.L.D.), (*Gunnaur*); Manoor-Ahmed (Cong.), (*Gurumkteshwar*); Ram Rati (B.L.D.), (*Gyanpur*); Sabhitanand Bajpai (Cong.), (*Hadaha*); Sri Bhisham (B.L.D.),(*Haisa Bazar*); Dev Bahadur Singh (Cong.), (*Haldwani*); Pratap Narain (Cong.), (*Hamirpur*); Athai Ram (B.L.D.), (*Handia*); Bhoop Singh Ken (Cong.), (*Hapur—S.C.*); S. P. Narain (Cong.), (*Haraiya*); Sri Chandra (Cong.), (*Hardoi*); R. K. Garg (C.P.I.), (*Hardwar*); Ram Lal Rahi (Cong.), (*Hargaon*)—*S.C.*); Smt. Shakuntala Devi (Cong.), (*Harora—S.C.*); Bhikha Lal (C.P.I.), (*Hasanganj—S.C.*); Mahendra Singh (B.L.D.), (*Hassanpur*); Revati Sharan Manraya (Cong.), (*Hastinapur*); Jainarain Singh (Cong.), (*Haswa*); Gulab Chand (Cong.), (*Hata—S.C.*); Narain Hari Sharma (Cong.), (*Harhras*); Makhan Lal (Cong.), (*Hydrabad*); J. B. Varma (Cong.), (*Hydergarh*).

Rajinder Singh (B.L.D.), (*Iglas*); Smt. Dulari Devi (Cong.), (*Ikauna*); Ambika Prasad Singh (Cong.), (*Issauli*); Gopinath Kameshwar Puri (Cong.), (*Itwa*); Ramsevak Dhobi (Cong.), (*Jagdishpur—S.C.*); Prem Datt Tiwari (Cong.), (*Jahanabad*); Smt. Ram Rati Devi (Cong.), (*Jahangirganj—S.C.*); Raghuvir Ram (B.L.D.), (*Jahurabad*); Shiv Kumar Pandey (Cong.), (*Jaisingpur*); Jhilmit (B.L.D.), (*Jakhania—S.C.*); Dal Singh Yadav (J.S.), (*Jalalabad*); Bhagwati Prasad (C.P.I.-M.), (*Jalalpur*); Nathu Ram (Cong.), (*Jalesar*); Dharam Ram (B.L.D.), (*Jamania*); Qabul Singh (B.L.D.), (*Jansath—S.C.*); Balbir Singh (B.L.D.), (*Jasrana*); Mulayam Singh Yadav (B.L.D.), (*Jaswantnagar*); Om Prakash Shrivastava (Cong.), (*Jaunpur*); Aidal Singh (B.L.D.), (*Jewar*); Babu Lal Tiwari (Cong.), (*Jhansi*); Vidya Dhar (Cong.), (*Jhusi*); Misar Yar Khan (B.L.D.), (*Kaber*).

Jairaj Gautam (Cong.), (*Kadipur*); Ram Lakhan (J.S.), (*Kahra*); Anwar Mohammad (Ind.), (*Kaimganj*); Hukum Singh (Cong.), (*Kairana*); Babulal Verma (J.S.), (*Kaisarganj*); Bir Singh (J.S.), (*Kalpi*); Ram Narain Pathak (Cong.), (*Kalyanpur*); Anwar Jameel *alias* Jimi Mian (Cong.), (*Kamalganj*); Mool Chand (Ind.), (*Kandhla*); Jham Lal Ahirwar (J.S.), (*Kannauj—S.C.*); Shyam Misra (Cong.), (*Kanpur Cantt.*); Chanderpal Singh (B.L.D.), (*Kanth*); Ram Sajiwan (C.P.I.), (*Karbi*); Kunwar Revati Raman Singh (Cong.), (*Karchhna*); Nathu Singh (B.L.D.), (*Karhal*); Shivanand Nautiyal (Cong.), (*Karnaprayag*); Manpal Singh (Cong.), (*Kasganj*); Narain Datt Tewari (Cong.), (*Kashipur*); Raj Mangal Pandey (Cong.), (*Kasia*); Deep Narain Pandey (Cong.), (*Katra Bazar*); Bhagwati Prasad Sukal (Cong.), (*Katehari*); Dhruwanarain Singh (Cong.), (*Kauriram*); Mian Yar Khan (B.L.D.), (*Kawar*); Krishna Ram Samjhawan (Cong.), (*Kerakat—S.C.*); Krishna Datt Alias Balraj (Cong.), (*Khaga*); Pyare Lal (Cong.), (*Khair*); Laloo Ram (Cong.), (*Khalilabad*); P. S. Narain Singh (Cong.), (*Kharkahuda*); Lakshman Singh (B.L.D.), (*Khatauli*); Indra Lal (Cong.), (*Khatima—S.C.*); Shiv Prasad (Cong.-O), (*Kheragarh*); Shajju Singh (B.L.D.), (*Khekra*); Raj Bahadur Chand (Cong.), (*Khesraha*); Iswari Singh (Cong.), (*Khuraj*); Laxmi Shankar Yadav (Cong.), (*Khutahan*); Munshi Lal (Cong.), (*Kishni—S.C.*); Jageshwar (Cong.), (*Kishunpur—S.C.*); Ram Dayal Singh (B.L.D.), (*Kithore*); Puran Chand (Cong.), (*Koil—S.C.*); Udal (C.P.I.), (*Kolaslah*); Markhan Singh (J.S.), (*Konch*); Kailash Singh (B.L.D.), (*Kopachit*); Naiz Hasan (Cong.-O), (*Kunda*); Smt. Indra Mohini (Cong.), (*Kunderki*).

Abid Ali (Cong.), (*Laharpur*); Ram Lakhan (J.S.), (*Lakhna—S.C.*); Kazim Mohiuddin (B.L.D.), (*Laksar*); Tel Narain Trivedi (Cong.), (*Lakhimpur*); Triveni (Cong.), (*Lalganj*); Chandan Singh (C.P.I.), (*Lalitpur*); Bharat Singh (Cong.), (*Lansdowne*); Abdul Rahuf Lari (B.L.D.), (*Laxmipur*); Swarup Kumari (Cong.), (*Lucknow East*); Charan Singh (Cong.), (*Lucknow Cantt.*); Ramesh Chandra Srivastava (Cong.), (*Lucknow Central*); Mohd. Shakeel Ahmed (Cong.), (*Lucknow West*); Verendra Kumar (Cong.), (*Machrehata—S.C.*); Agha Zaidi (Cong.), (*Machhlishahr*); Rajindra Shah (Cong.), (*Madhogarh*); Duryodhan (Cong), (*Maharajganj*); Amar Rizvi (Cong.), (*Mahamudabad*); Chander Narain Singh (Cong.), (*Makoba*); Sukhad Raj Singh (J.S.), (*Mahsi*); Baba Ram Nath (C.P.I.—M), (*Mainpuri*); Raghubir Singh (B.L.D.), (*Mainpuri*); Rudra Prasad (Cong.), (*Majhwa*); Smt. Kailash Pati (Cong.), (*Malihabad—S.C.*); Lalan Sharma (Cong.), (*Mallowan*); Kunwar Bahadur Misra (Cong.), (*Maudaha*); Mahant Avaid Nath (H.M.S.C.), (*Maniram*); Dharam Vir (Cong.), (*Manjanpur—S.C.*); Capt. Ram Garib (Cong.). (*Mankapur—S.C.*); Laxmi Prasad (Ind.), (*Mankapur— S.C.*); Chandan Singh (B.K.D.), (*Manth*); Raj Kishore (Cong.), (*Mariahun*); Smt. Mohsina Kidwai (Cong.), (*Masouli*); Ram Babu (Cong.), (*Mathura*); Abdul Baki (C.P.I.), (*Mau*); Kunwar (Bahadur Singh (Cong.), (*Maudaha*); Smt. Beni Bai (Cong.), (*Mauranipur—S.C.*); A. S. Sethi (Cong.), (*Merut Cantt.*); Mohanlal Kapoor (J.S.), (*Meerut City*); Chandra Sekhar Singh (J.S.), (*Mehdawal*); Jan Bahadur (B.L.D.), (*Mehnagar*); Raghunath Singh (Ind.), (*Mehroni*); Ram Deo (Cong.), (*Meja—S.C.*); Dharam Chandra (Cong.), (*Milkipur*); Asha Ram (J.S.), (*Mirzapur*); Ramnath Singh (Cong.), (*Misrikh*); Meghnath Singh (Cong.), (*Modinagar*); Ganji Prasad (B.L.D.), (*Moghulsarai*); Ramjanam Rai (B.L.D.), (*Mohamadabad*); Rajindra Singh Yadav (Ind.), (*Mohammadabad*); Sheo Prasad (B.L.D.), (*Mohammadabad—S.C.*); Munna Lal (J.S.), (*Mohammedi*); Rampal Trivedi (Cong.), (*Mohana*); Naraindas (Cong.), (*Mohanlalganj—S.C.*); Dinesh Chandra Rastogi (J.S.), (*Moradabad*); Khyali Ram Sastri (Cong.), (*Moradabad Cantt.*); Om Prakash (Ind.), (*Moradabad Rural*).

Narain Singh (Cong.), (*Morna*); Bhabhi (B.L.D.), (*Mubarakpur*); Deep Narain Mahant (Cong.), (*Mujhena*); Firangi Prasad (B.L.D.), (*Mundera Bazar—S.C.*); Raj Pal (Cong.), (*Murad Nagar*); S. P. Sharma (Cong.), (*Mussoorie*); Mohd. Aslam (Cong.), (*Muzaffarabad*); Chittaranjan Swaroop (Cong.), (*Muzaffar Nagar*); Hari Ram (Cong.), (*Nagal—S.C.*); Sohan Lal Dhusia (Cong.), (*Nagar East*); Sukhan Singh (Cong.), (*Najibabad—S.C.*); Smt. Ganga Devi (Cong.), (*Nagina—S.C.*); Sohan Lal Dhursia (Cong.), (*Nagra East*); Balkrishna Sanwal (Cong.), (*Nainital*); Yashpal Singh (Cong.), (*Nakur*); Fazlur Rahm (C.P.I.), (*Nanapara*); Chandrabhan Azad (C.P.I.), (*Naraini*); J. Misra (Cong.), (*Nathupur*); Ram Rekha Yadav (J.S.), (*Naugarh*); Srinarain (J.S.), (*Naurangia—S.C.*); Ram Pujan Patel (Cong.), (*Nawabganj*); C. Gangwar (Cong.), (*Nawabganj*); Ram Chandra Baksh Singh (C.P.I.), (*Nawabganj*); Ganga Singh (B.L.D.), (*Nidhauli-Kalan*); Ram Charan Singh (J.S.), (*Nighastan*); Om Prakash (B.L.D.), (*Niyohi*); M. Masood (B.L.D.), (*Nizamabad*); Anand Swaroop (Cong.), (*Orai*); Purshottam Kaushik (B.L.[illegible].), (*Padraun*); Chheda Lal Chaudhry (Cong.), (*Palia—S.C.*); Bir Bahadur Singh (Cong.), (*Paniyara*); Mohd. Zamii Ahmed Khan (Cong.), (*Patiali*); P. N. Dwivedi

(Cong.), (*Patti*); Bhagwati Charan (Cong.), (*Pauri*); Laxmi Narain (C.P.I.), (*Pharenda*); Dhirendra Sahai (B.L.D.), (*Philibhit*); Ram Bachan (B.K.D.), (*Phulpur*); Mohan Singh (Cong.), (*Pihani*); Madhukar Dighe (B.L.D.), (*Pipraichi*); D. K. Pandey, (Cong. O), (*Pithoragarh*); Roop Ram (Cong.), (*Powayan—S.C.*); Ajit Pratap Singh (Cong.), (*Pratapgarh*); Har Pratap Singh (B.L.D.), (*Pratappur*); Harish Chandra (J.S.), (*Puranpur*); Gaya Singh (Cong.), (*Purwa*); Roop Ram (Cong.) (*Puwayan*).

Smt. Sunita Chauhan (Cong.), (*Rae Bareilly*); Lok Pati Tripathi (Cong.), (*Rajgarh*); Randhir Singh (S.S.D.), (*Rajpur*); Bankey Lal (B.L.D.), (*Ramkola*); Ram Samuj (Cong.), (*Ramnagar*); Bhagwati (Prasad (Cong.), (*Ramnagar*); Manzoor Ali Khan (Cong.), (*Rampur*); Prabhakar Singh (Cong.), (*Rampur Khas*); G. S. Mehra (Cong.), (*Ranikhet*); Raj Bahadur (B.L.D.), (*Rari*); Raghunath (C.P.I.), (*Rasra*); Swami Prasad Singh (Cong.), (*Rath*); Subedar Prasad (J.S.), (*Robertganj*); Rao Mushraq (B.L.D.), (*Roorkee*); Vacant (*Rudauli*); Rajindra Prasad Gupta (Cong.), (*Rudrapur*); Ram Prakash (B.L.D.), (*Sadabad*); Kalicharan (B.L.D.), (*Sadat*); Dashrath Singh (J.S.), (*Sadullanagar*); Sunder Lal (B.L.D.), (*Safipur—*(*S.C.*); R. S. Pandey (Cong.), (*Sagri*); Kaltar Singh Cong.), (*Sahranpur*); Smt. Shanti Devi (B.L.D.), (*Sahaswan*); Prabhu Narain Singh (Cong.), (*Saidpur*); Pyare Lal (J.S.), (*Sakeet*); Harikewal (S.P.), (*Salempur*); Dinanath (B.L.D.), (*Salon—S.C.*); Shafiqur Rehman Burq (B.L.D.), (*Sambhal*); Kashi Nath (J.S.), (*Sandila*); Dayaram Bhaskar (B.L.D.), (*Saraimir—S.C.*); Nazir Ahmad (B.L.D.), (*Sardhana*); Sheo Shankar Singh (Cong.), (*Sareni*); Vijay Kumar Tripathi (Cong.), (*Sarojininagar*); Ram Autar Singh (Cong.), (*Sarraul*); Mohd. Ali Khan (Cong. (*Sarawa*); Balwan Singh (B.K.D.), (*Sarvankhera*); Dharam Pal Singh (Cong.), (*Sasni*); Ram Deo Yadav (Cong.), (*Sataon*); Abdul Waheed (B.L.D.), (*Seohara*); Kripa Shankar (B.L.D.), (*Seorahi*); Dadhich Singh (J.S.), (*Shahabad*); Bansi Dhar (Cong.), (*Shahabad—S.C.*); Mata Prasad (Cong.), (*Shahganj—S.C.*); Sharda Prasad Rawat (B.L.D.), (*Shahjanwa*); Mohammed Rafi Khan (Cong.), (*Shahjehanpur*); Dharam Singh (Cong.), (*Shikarpur*); Virendra Swarup (B.L.D.), (*Shikohabad*).

Prabhu Dayal (Cong.), (*Shohratgarh*); N. S. Bhandari (Cong.), (*Shri Badri-Kedar*); Raj Brajraj Singh (J.S.), (*Shrinagar*); Janardan Prasad Ojha (S.P.), (*Shyamdeurawa*); Mumtaz Mohd. Khan (Cong.), (*Siana*); Rafi Ullah (Cong.), (*Siar*); Sham Lal (Cong.), (*Sidhavli—S.C.*); Sheo Kailash (Cong.), (*Sidhaur—S.C.*); Nirbhay Narain Singh (Cong.), (*Sikanderpur*); Virendra Swarup Bhatnagar (Cong.), (*Sikandarabad*); Farzand Ali (B.L.D.), (*Sikandrarao*); Baijnath Prasad Kushwaha (B.L.D.), (*Sirathu*); Shiv Lal (Cong.), (*Sisamau—S.C.*); Yadavendra Singh (Cong.), (*Siswa*); Shyam Kishore (Cong.), (*Sitapur*); Ramji Lal Sahayak (Cong.), (*Siwal Khas*); Hubraj (Cong.), (*Sohawal*); Jang Bahadur Singh Patel (B.L.D.) (*Soraon*); Kub Chand (B.K.D.), (*Soraon*); Brij Raj Singh (J.S.), (*Srinagar*); Dr. Jitendra Kumar (J.S.), (*Sultanpur*); Rameshwar Nath Chaube (Cong.–O), (*Sunha*); Nawab Syed Murthasa Alikhan (Cong.), (*Swar Tanda*); Bir Bahadur Singh (Cong.), (*Tamara*); N. A. Ansari (Cong.), (*Tanda*); Govind Singh Negi (C.P.I.), (*Tehri*); Rampal Singh (Cong.), (*Thakurdwara*); Malkhan Singh (Cong.), (*Thana Bhawar*); Mangrey Singh (J.S.), (*Thulsipur*); Satyapal Singh (J.S.), (*Tilhar*); Mohan Singh (Cong.), (*Tiloi*); Jagannath Singh Parmar (J.S.), (*Tinwari*); Ranjilal Cane (Cong.), (*Tundla—S.C.*); Dharam Pal Singh (J.S.), (*Umardha*); Sheopal Singh (B.L.D.), (*Unnao*); Braj Pal Singh (J.S.), (*Usehat*); Baldev Singh (Cong.), (*Uttar Kashi*); Rajendra Prasad (J.S.), (*Utraula*); Shatrudha Prakash (B.L.D.), (*Varanasi Cantt.*); Mohd. Shafiur Rahman Ansari (Cong.), (*Varanasi North*); Charan Das Seth (J.S.), (*Varanasi South*); A. C. Grice (*Nominated Member*).

UTTAR PRADESH VIDHAN PARISHAD

Chairman : Dr. Virendra Swarup (Elected-Unanimous).

Deputy Chairman Kunwar Devendra Pratap Singh (Elected-Unanimous). Seats: 108. Party Position: Congress 71; Congress–(O) 4; Bhartiya Lok Dal 9; Bharatiya Jan Sangh 5; Republican Party 1; Rashtravadi Dal 3; Shikshaka Dal 6; Nirdaliya Sangh 3; Nirdaliya 3; C.P.I. 1; Recently Nominated 5; Vacant 2. (No. of women members 7).

Elected by the Legislative Assembly (90) *:* Brahma Dutt (B.L.D.); Brahma Prakash Sharma (Cong.); Smt. Chandra vati (B.L.D.); Chhedi Lal Sati (Cong.); Daya Nand Vyas (Cong.); Gauri Shankar Rai (Cong.–O); Har Pal Patel (Cong.); Hari Krishna Srivastava (B.L.D.); Istafa Hussain (Cong.); Jagannath Singh Shastri (Cong.); Kedarnath Malavya (Cong.); Kunwar Devendra Pratap (Cong.); Dr. Mahadev Prasad (Cong.); Mohd. Zulfiqar Khan (Cong.); Mustafa Kamal Kidwai (Cong.); Muzaffar Hasan (Cong.–O); Nek Ram Sharma (Cong.); P. D. Tandon (Cong.); Pannalal Tambey (J.S.); Phool Chandra (Cong.); Smt. Premavati Tiwari (Cong.); Pratap Narain Tiwari (J.S.); Raj Bahadur Dwivedi (Cong.); Ram Avadh Singh (Cong.); Ram Chandra Azad (B.L.D.); Ram Gopal (N.S.); Ram Swaroop (B.L.D.); Ramesh Sinha (C.P.I.); Ravindra Kishore Shahi (J.S.); R. Nath Verma (Cong.); Saligram Jaiswal (Cong.); Shiv Prasad Singh (Cong.); Shiv Swaroop Singh (Cong.); Sitaram Yadav (J.S.); Thakur Ram Chandra Singh (Cong.); Smt. Veena Duggal (Cong.).

Local Authorities Constituency (39): Bhogilàl Misra (Cong.), (*Agra*); Mahendra Singh (B.L.D.), (*Aligarh*); Ram Adhar Pandey (Cong.), (*Allahabad*); Vindhiyachal Rai (Cong.), (*Azamgarh-cum-Ghazipur*); Uma Shankar (B.L.D.), (*Azamgarh-cum Ghazipur*); Indra Pratap Singh (Cong.), (*Bahrich*); Radhakrishna Tripathy (Cong.), (*Basti-cum-Gorakhpur*); Mathura Prasad Pandey (Cong.), (*Basti-cum-Gorakhpur*); Shiv Harsh Upadhyaya (Cong.), (*Basti-cum-Gorakhpur*); Mithan Lal Trivedi (Cong.), (*Bulandshahr*); Smt. Malti Pandey (Cong.), (*Deoria-cum-Ballia*); Vacant (*Deoria-cum-Ballia*); Nripendra Bahadur Singh (Cong.), (*Faizabad*); Balbir Singh (Cong.), (*Fatipur-cum-Banda*); Sultan Singh Bhandri (Cong.), (*Garhwal-cum-Bijnor*); R. S. Sanwal (Cong.), (*Garhwal-cum-Kumaun*); Sarju Prasad Singh (Cong.), (*Gonda*); Biharilal Vashistha (Cong.), (*Hamirpur-cum-Jhansi*); Mulaxim Singh (Cong.), (*Jalaun-cum-Etawah*); Chandra Sen (N.S.), (*Jaunpur*); Har Mohan Singh Yadav (B.L.D.), (*Kanpur-cum-Farukhabad*); Virendra Bahadur Singh Chandel (Cong.), (*KanpurKcum-Farukhabad*); Ram Autar Sinit (Cong.), (*Kheri-cum-Sitapur-cum-Hardoi*); Jagat Narain (Cong.), (*Kheri-cum-Sitapur-cum-Hardoi*); Dhani Ram Jaiswal (Cong.), (*Lucknow-cum-Unnao-cum Rae Bareilly*); Ravi Shankar Pandey (Cong.), (*Lucknow-cum-Unnao-cum-Rae Bareilly*); Nawab Singh Yadav (Cong.), (*Mainpuri-cum-Etah-cum-Mathura*); Vir Singh (Cong.), (*Manipuri-cum-Etah-cum-Mathura*); Ishwar Dayal Tyagi (Cong.), (*Meerut-cum-Muzaffarnagar*); Om Prakash Tyagi (B.L.D.), (*Meerut-cum-Muzaffarnagar*); Muni Deo (Cong.), (*Moradabad*); Laxman Dayal Singh (Cong.), (*Nainital-cum-Bareilly*); Shyam Sundar Singh (Cong.), (*Pilibhit-cum-Shahjahanpur*); Puttu Lal (Cong.), (*Pratapgarh-cum-Sultanpur*), Har Bhajan Singh (Cong.), (*Pratapgarh-cum-Sultanpur-cum-Bara Banki*); Srikrishna Goel (Cong.), (*Rampur-cum-Budaun*); Dr. Jai Gopal (Cong.), (*Saharanpur-cum-Dehra Dun-Uttarkhand-cum-Tehri*); Ishwar Saran Singh (Cong.), (*Varanasi-cum-Mirzapur*); Uma Kant Misra (Cong.), (*Varanasi-cum-Mirzapur*).

Graduates Constituency (9): Dhruv Narayan Singh Verma (R.P.I.), (*Agra*); Jagdish Prasad Srivastva (Cong.), (*Allahabad*); Dr. S. N. M. Tripati (N.S.), (*Gorakhpur-cum-Faizabad*); Dr. Virendra Swarup (Cong.), (*Kanpur-cum-Jhansi*); Hari Krishna Awasthi (Cong.), (*Lucknow*); T. P. Misra (N. S.), (*Meerut*); Jagadish Saran Agarwal (Cong.), (*Rohilkhand*); Jagannath Sharma (Cong.), (*Uttarkhand-cum-Kumaun*); Dr. Moti Singh (N.S.), (*Varanasi*).

Teachers Constituency (9): Girish Chandra Tiwari (R.D.), (*Agra*); Manadhata Singh (S.D.), (*Allahabad*); R. N Thakkuri (S.D.), (*Gorakpur-cum-Faizabad*); Moolkrishna Chaturvedi (S.D.), (*Kanpur*); Maheshwar Pandey (R.D.), (*Lucknow*); Om Prakash Sharma (S.D.), (*Meerut*); Ramesh Chandra Sharma (S.D.), (*Rohilkhand*); Ram Avtar Dubey (R.D.), (*Varanasi*); Smt. Indira Hridesh Kumar (S.D.), (*Garhwal-cum-Kumaun*).

Nominated (12): Dr. A. C. Das (Cong.); Habibur Rehman Nomani (Cong.); Jagat Narain Dubey (Cong.); Pratul Kumar Sharma (Cong.); Raja Ram Shastri (Cong.); Ram Shankar Tripathi (Cong.); Prof. Rehan Raza (Cong.); S. N. Ghosh (N.S.); Kum. Satya Sud (Cong.); Sarvsukh Singh (Cong.); Smt. Sheorajvati Nehru (Cong.); Syed Mohd. Jafar (Cong.).

WEST BENGAL LEGISLATIVE ASSEMBLY

Speaker: Apurba Lal Majumdar.

Dy. Speaker: Haridas Mitra.

Seats: 281; Electorate: 22,701,070; Votes polled: 13,718,535. An estimate of party position in the Assembly is as follows:—Congress 216; C.P.I. 36; C.P.I.(M) 13; R.S.P. 3; Independents 5; Others 7; Nominated 1; Total 281. Women members 6.

Dr. Kanai Lal Sarkar (Cong.), (*Alipore*); Narayan Bhattacharya (Cong.), (*Alipurduar*); Aftabuddin Mondal (Cong.), (*Amta*); Prafulla Chandra Sen (Cong.-O), (*Arambagh*); Nitai Deshmukh (Cong.), (*Arsha*); Niranjan Dihidar (C.P.I.), (*Asansol*); Keshab Chandra Bhattacharjee (Ind.), (*Ashokenagar*); Sridhar Malik (C.P.I.-M), (*Ausgram—S.C.*); Quazi Abdul Gaffar (Cong.), (*Baduria*); Apurba Lal Majumdar (Ind.), (*Bagdaha—S.C.*); Susanta Bhattacharjee (Cong.), (*Bagnan*); Biren Sarkar (Cong.), (*Balagarh—S.C.*); Rup Sing Majhi (Cong.), (*Balarampur—S.T.*); Bhabani Sankar Mukerjee (Cong.), (*Bally*); Subrata Mukhopadhaya (Cong.), (*Ballygunj*); Bireswar Roy (Cong.), (*Balurghat*); S. C. Hembram (Cong.), (*Banduan—S.T.*); Kashinath Misra (Cong.), (*Bankura*); S. Bandyopadhyay (Cong.), (*Barabani*); Ramakrishna Saraogi (Cong.), (*Barabazar*); Shibapada Bhattacharjee (C.P.I.), (*Baranagar*); Kanti Ranjan Chatterjee (Cong.), (*Barasat*); Sudhangshu S. Tewari (Cong.), (*Barjora*); Lalit Mohan Gayen (Cong.), (*Baruipur—S.C.*); Sunil Mohan Ghosh Maulik (Cong.), (*Barwan*); Panchanan Sinha (Cong.), (*Basanti*); Lalit Kumar Ghosh (Cong.), (*Basirhat*); Indrajit Majumdar (Cong.), (*Behala East*); Biswanath Chakrabarti (C.P.I.), (*Behala West*); Timir Baran Bhadum (R.S.P.), (*Beldanga*); Nandalal Banerjee (Cong.), (*Belgachia*).

Ananta Kumar Bharati (Cong.), (*Beliaghata North*); Ardhendu Sekher Nasker (Cong.), (*Beliaghata South—S.C.*); Sankar Das Paul (Cong.), (*Berhampore*); Mohammad Dedar Baksh (Cong.), (*Bhagabangola*); Amales Jana (Cong.), (*Bhagwanpur*); Abdur Razzak Molla (C.P.I.-M), (*Bhangar*); Kumardipti Sen Gupta (Cong.), (*Bharatpur*); Bholanath Sen (Cong.), (*Bhatar*); Satya Narayan Singh (Cong.), (*Bhatpara*); Jagadish Chandra Das (Cong.), (*Bijpur*); Jairam Soren (C.P.I.), (*Binpur—S.T.*); Ramkrishna Bar (Cong.), (*Bishnupur East—S.C.*); Provash Chandra Roy (C.P.I.-M.), (*Bishnupur West*); Harasankar Bhattacharyya (C.P.I.), (*Bolpur*); Ajit Kumar Ganguly (C.P.I.), (*Bongaon*); Bijoy Singh Nahar (Cong.), (*Bowbazar*); Khitibhusan Roy Barman (C.P.I.-M.), (*Budge Budge*); Kashinath Ta (Cong.), (*Burdwan North*); Pradip Bhattacharyya (Cong.), (*Burdwan South*); Ajit Kumar Panja (Cong.), (*Burtola*); Gobinda Chandra Naskar (Cong.), (*Canning—S.C.*); Haridas Mitra (Cong.), (*Chakdaha*); Kamala Kant Hemram (Cong.), (*Chhatna*); Girija Bhusan Mukhopadhyay (C.P.I.), (*Champdani*); Bhabani Mukherjee (C.P.I.-M.), (*Chandernagore*); Md. Safiullah (Cong.), (*Chanditala*); Satya Ghosal (C.P.I.), (*Chandrakona*); Ghiasuddin Ahmed (Cong.), (*Chapra*); Chandra Kumar Dey (Ind.), (*Chinsurah*); Chowdhury Abdul Karim (Cong.), (*Chopra*); Sankar Ghose (Cong.), (*Chowringhee*); K. D. Mohapatra (C.P.I.), (*Contai North*); Sudhir Chandra Das (Cong.), (*Contai South*); Sunil Kar (Cong.), (*Cooch Behar North*); Santosh Kumar Roy (Cong.), (*Cooch Behar South*); Rajani Das (Cong.), (*Cooch Behar West—S.C.*); Prafulla Kanti Ghosh (Cong.), (*Cossipur*).

Pradyot Kumar Mahanti (Cong.-O.), (*Dantan*); Deo Prakash Rai (G.L.), (*Darjeeling*); Sudhir Bera (Cong.), (*Daspur*); Rabindra Nath Bera (Cong.), (*Debra*); M. Shaukat Ali (Cong.), (*Deganga*); Somnath Lahiri (C.P.I.), (*Dhakuria*); Kashinath Patra (Cong.), (*Dhaniakhali—S.C.*); Bhawani Paul (Cong.), (*Dhupguri*); Daulat Ali Sheikh (Cong.), (*Diamond Harbour*); Jogesh Chandra Sarkar (Cong.), (*Dinhata*); Krishna Pada Roy (Cong.), (*Domjur*); Dr. Ekramul Haque Biswas (Cong.), (*Domkal*); Sachinandan Sau (Cong.), (*Dubrajpur*); Lal Bahadur Singh (Cong.), (*Dum Dum*); Ananda Gopal Mukherjee (Cong.), (*Durgapur*); Samsul Alam Khan (Cong.), (*Egra*); Bimal Das (C.P.I.), (*English Bazar*); S K. Dhar (C.P.I), (*Entally*); Jagadananda Roy (Cong), (*Falakda—S C.*); Mohini Mohan Parui (Cong.), (*Falta*); Jerat Ali (C.P.I.-M.), (*Farakka*); Ajit Kumar Bandyopadhyay (Cong.), (*Faridpur*).

Smt. Mira Rani Mitra (Cong.), (*Gaighata*); Benjamin Hembrom (Cong.), (*Gajol—S.T.*); Aswaini Kumar Roy (C.P.I.), (*Galsi*); Saktipada Maji (Cong.), (*Gangajalghati—S.C.*); Moslehuddin Ahmed (Cong.), (*Gangarampur*); Chhedi Lal Singh (C.P.I.-M.), (*Garden Reach*); Krishna Prasad Duley (C.P.I.), (*Garhbeta East—S.C.*); Saroj Roy (C.P.I.), (*Garhbeta West*); Hari Sadhan Dohri (Cong.), (*Ghatal—S.C.*); Shaikh Sharafat Hussain (Cong.), (*Godpokhar*); Madan Mohan Medda (Cong.), (*Goghat—S.C.*); Harish Chandra Mahapatra (Cong.), (*Gopiballanpore*); Parekh Chandra Baidya (Cong.), (*Gosaba—S.C.*); Rabindra Nath Murmu (C.P.I.), (*Habibpur—S.T.*); Tarun Kanti Ghosh (Cong.), (*Habra*); Ananda Mohan Biswas (Cong.), (*Hanskhali—S.C.*); Abu Raihan Biswas (S.U.C.), (*Hariharpara*); Sakti Kumar Bhattacharjee (C.P.I.), (*Haringhata*); Chittaranjan Basu (W.P.), (*Haripal*); Gautam Chakravarty (Cong.), (*Harishchandrapur*); Gangadhar

Pramanik (Cong.), (*Haroa—S.C.*) ; Dhanapati Mal (Cong.), (*Hansan—S.C.*) ; Molla Tasmatullah (Cong.), (*Hasnabad*); Anil Krishna Mondal (C.P.I.), (*Hingalganj—S.C.*) ; Triptimay Aich (Cong.), (*Hirapur*) ; Mrityunjoy Banerjee (Cong.), (*Howrah Central*) ; Supriyo Basu (Cong.), (*Howrah North*) ; Dr. Santi Kumar Das Gupta (Cong.), (*Howrah South*) ; Satadal Mahata (Cong.), (*Hura*).

Sanatan Santra (Cong.), (*Indas—S.C.*) ; Gour Chandra Lohar (Cong.), (*Indpur—S.C.*) ; Dr. Zainal Abedin (Cong.), (*Itahar*) ; Dinesh Mazumdar (C.P.I.-M.), (*Jadavpur*) ; Tarapada Dey (C.P.I.-M.), (*Jagatballavpur*) ; Ramakrishna Mahato (Cong.), (*Jaipur*) ; Abdul Bari Biswas (Cong.), (*Jalangi*) ; Dr. Anupam Sen (Cong.), (*Jalpaiguri*) ; Puranjoy Pramanik (Cong.), (*Jamalpur—S.C.*) ; Amarendra Nath Mondal (Cong.), (*Jamuria—S.C.*) ; Ganesh Hatui (Cong.), (*Jangipara*) ; Habibur Rahaman (Cong.), (*Jangipur*) ; Kinkar Mahata (Cong.), (*Jhalda*) ; Birendra Bijoy Malla Deb (Cong.), (*Jhargram*) ; Smt. Ila Roy (Cong.), (*Jorabagan*) ; Deokinandan Poddar (Cong.), (*Jorasanko*) ; Nandalal Gurung (G.L.), (*Jorebunglow*) ; Nirad Kumar Saha (Cong.), (*Joynagar*) ; Ram Peyare Ram (Cong.), (*Kabitirtha*) ; Basudev Sautya (Cong.), (*Kakdwip*) ; Denis Lakra (Cong.), (*Kalchini—S.T.*) ; Shamsuddin Ahmad (Cong.), (*Kaliachka*) ; Debendra Nath Ray (Cong.), (*Kalaiganj—S.C.*) ; Shib Shankar Bandopadhayay (Cong.), (*Kaliganj*) ; Rathin Talukdar (Cong.), (*Kalighat*) ; Gajendra Gurung (Cong.), (*Kalimpong*) ; Nurul Islam Molla (Cong.), (*Kalna*) ; Ali Ansar (C.P.I.), (*Kalyanpur*) ; Pradip Kumar Palit (Cong.), (*Kamarhati*) ; Atish Chandra Sinha (Cong.), (*Kandi*) ; Haji Sajjad Hussain (Cong.), (*Karandighi*); Arabinda Mandal (Cong.), (*Karimpur*); Madan Mohan Mahato (Cong.), (*Kashipur*); Subrata Mukherjee (Cong.), (*Katwa*); Budhan Chandra Tudu (Cong.), (*Keshary—S.T.*); Rajani Kanta Doloi (Cong.), (*Keshpur—S.C.*); Prabhakar Mandal (Cong.), (*Ketugram—S.C.*) ; Basudeb Hajra (Cong.), (*Khanakul—S.C.*) ; Manoranjan Pramanik (Cong.), (*Khandaghosh—S.C.*) ; Gyan Singh Sohanpal (Cong.), (*Kharagpur*) ; Ajit Kumar Basu (Cong.), (*Kharagpur* (*Local*) ; Mahabubul Haque (Cong.), (*Kharba*) ; Sisir Kumar Ghosh (C.P.I.), (*Khardah*) ; Harendra Nath Halder (Cong.), (*Khargram—S.C.*) ; Bimal Paik (Cong.), (*Khajuri—S.C.*) ; Akshay Kumar Kolay (Cong.), (*Kotulpur*) ; Kashikanta Maitra (Cong.), (*Krishnagar East*) ; Sibdas Mukherjee (Cong.), (*Krishnagar West*) ; Santosh Kumar Mondal (Cong.), (*Kulpi—S.C.*) ; Arabinda Naskar (Cong.), (*Kultali—S.C.*) ; Ramdas Banerjee (Cong.), (*Kulti*) ; Probodh Kumar Singha Roy (Cong.), (*Kumarganj*) ; Debabrata Chatterjee (Cong.), (*Kumargram*) ; Jatindra Mohan Roy (Cong.), (*Kushmandi—S.C.*).

Nirmal Krishna Sinha (C.P.I.), (*Labhpur*) ; Abdus Sattar (Cong.), (*Lalgola*) ; A. H. Besterwitch (R.S.P.), (*Madarihat—S.T.*) ; Manoranjan Halder (Cong.), (*Magrahat East—S.C.*) ; Sudhendu Mundle (Cong.), (*Magrahat West*) ; Nitai Pada Ghosh (Cong.), (*Mahammad Bazar*) ; Dr. Bhupen Bijali (Cong.), (*Maheshtola*) ; Ahindra Misra (Cong.), (*Mahisadal*) ; Bijoy Krishna Mohanta (Cong.), (*Mainaguri—S.C.*) ; Antoni Topno (Cong.), (*Mal—S.T.*) ; Siddhartha Shankar Ray (Cong.)(*Malda*) ; Sitaram Mahato (Cong.), (*Manbazar*) ; Jyotiramoy Mojumdar (Cong.), (*Mangalkot*) ; Smt. Ila Mitra (C.P.I.), (*Manicktola*) ; Jokhilal Mandal (Cong.), (*Manikchak*) ; Birendra Nath Halder (Cong.), (*Mathurapur—S.C.*) ; Lalchand Fulmali (C.P.I.), (*Mayureswar—S.C.*) ; Madhu Sudan Roy (Cong.), (*Mekliganj—S.C.*) ; Naba Kumar Chatterjee (Cong.), (*Memari*) ; Biswanath Mukherjee (C.P.I.), (*Midnapur*) ; Tuhin Kumar Samanta (Cong.), (*Monteswar*) ; Kanai Bhowmik (C.P.I.), (*Moyna*) ; Prasanta Kumar Sahoo (Cong.), (*Mugberia*) ; Dr. Motahar Hossain (Cong.), (*Murarai*) ; Mohammad Idris Ali (Cong.), (*Murshidabad*).

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Durgadas Bauri (Cong.), (*Raghunathpur—S.C.*) ; Dr. Ramendra Nath Dutt (Cong.), (*Raiganj*) ; Sukumar Chattopadhyay (Cong.), (*Raina*) ; Manik Lal Besra (C.P.I.), (*Raipur*)—*S.T.*) ; Khagendra Nath Mondol (Cong.), (*Rajarhat—S.C.*) ; Mrigendra Narayan Roy (Cong.), (*Rajganj—S.C.*) ; Dwija Pada Saha (Cong.), (*Rajnagar—S.C.*) ; Hemanta Dutta (Cong.), (*Ramnagar*) ; Ananda Gopal Roy (Cong.), (*Rampurhat*) ; Nitaipada Sarkar (C.P.I.), (*Ranaghat East—S.C.*) ; Naresh Chandra Chaki (Cong.), (*Ranaghat West*) ; Smt. Amala Saren (Cong.), (*Ranibandh—S.T.*) ; Haradhan Roy (C.P.I.-M.), (*Raniganj*) : Lakshmi Kanta Basu (Cong.), (*Rashbehari Avenue*) ; Niren Chandra Sinha (Cong.), (*Ratua*) ; Prabhanjan Kumar Mandal (C.P.I.-M.), (*Sagar*) ; Nrisinha Kumar Mandal (Cong.), (*Sagardighi—S.C.*) ; Thakur Das Mahata (C.P.I.), (*Salboni*) ; Debendra Nath Sinha (Cong.), (*Sandeshkhali—S.T.*) ; Haran Chandra Hazra (C.P.I.-M.), (*Sankrail—S.C.*) ; Asamanja De (Cong.) (*Santipur*) ; Somendra Nath Mitra (Cong.), (*Sealdah*) ; Dr. Gopal Das Nag (Cong..), (*Serampore*) ; Mrigendra Mukherjee (Cong.), (*Shibpur*) ; Sisir Kumar Sen (Cong.), (*Shyampur*); Barid Baran Das (Cong.), (*Shampukur*) ; Arun Moitra (Cong.), (*Siliguri*) ; Ajit Kumar Basu (C.P.I.), (*Singur*) ; Dr. Md. Fazle Haque (Cong.), (*Sitai*) ; Guru Pada Khan (Cong.), (*Sonamukhi—S.C.*) ; Kansari Halder (C.P.I.), (*Sonarpur—S.C.*) ; Suniti Chattoraj (Cong.), (*Suri*) ; Rabindra Nath Karan (C.P.I.), (*Sutahata—S.C.*) ; Shish Mohammad (R.S.P.), (*Suti*) ; A. B. A. Ghani Khan Chowdhury (Cong.), (*Suzapur*) ; Chandra Nath Misra (Cong.), (*Swarupnagar*).

P. B. Singhababu (Cong.), (*Taldangra*) ; Abdur Rauf Ansari (Cong.) ; (*Taltala*) ; Ajoy Kumar Mukherji (Cong.), (*Tamluk*) ; Patrash Hembrom (Cong.), (*Tapan—S.T.*) ; Balailal Sheth (Cong.), (*Tarakeswar*) ; Kartic Chandra Biswas (Cong.), (*Tehatta*) ; Krishna Kumar Shukla (Cong.), (*Titagarh*) ; Pankaj Kumar Banerjee (Cong.), (*Tollygunge*) ; Sisir Kumar Isore (Cong.), (*Tufanganj—S.C.*) ; Saroj Ranjan Karar (Cong.), (*Udainarayanpur*) ; Gopal Mondal (Cong.), (*Ukhra—S.C.*) ; Raj Kumar Mondal (C.P.I.-M.), (*Uluberia North—S.C.*) ; Rabindra Ghosh (Ind.), (*Uluberia South*) ; Gobinda Chatterjee (C.P.I.), (*Uttarpura*); Md. Shamsuzzoha (Cong.), (*Vidyasagar*); Bhabataran Chakravarty (Cong.), (*Vishnupur*); George Albert Wilson de Roze (Nominated).

Note : G.L.—Gorkha League ; W.P.—Workers' Party.

WHO'S WHO IN INDIA

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ADVANI, Lal Kishinchand, Pres., Bharatiya Jana Sangh, since Feb. '73. *b.* Nov. 8, 1927. Mem., R.S.S., since '42 ; Jt. Secy., Rajasthan State Jana Sangh, 1952-57 ; Secy., Delhi State Jana Sangh, 1958-63 ; Vice-Pres., 1965-67 ; Pres., 1970-72 ; Mem., Central Executive, since '66 ; Leader, Jana Sangh Group in Delhi Metropolitan Council, Sep. '66-Mar. '67, Chmn., Delhi Metropolitan Council, Apr. '67-Apr. '70 ; elected to Rajya Sabha, Apr. '70 ; Leader Jana Sangh Group in Rajya Subha, since April 1974. *Address :* C-1/6, Pandara Park, New Delhi 110003.

AGARWALA, Shri Narayan, M.A., Ph.D. (Princeton) ; recipient of C. J. Wattumull Memorial Prize in Family Plng. for outstanding research in the field of family plng. in India, 1960. Dir., Population Centre, World Bank Project, Lucknow, was Dir. Intnl. Instt. of Population Studies, 1967-73. Asstt. Prof. of Economics, Allahabad Univ., 1947-57 ; Fellow, Population Council, New York, 1955-57 ; Chief, Demographic Research Centre, Instt. of Economic Growth, Delhi 1957-67 ; Staff Mem., Social Affairs Divn., ECAFE, Bangkok, 1963 ; Mem., Intnl. Union for the Scientific Study of Population, Academic Council, Senate and Syndicate, Bombay Univ., Senate of Indian Instt. of Tech. Powai, Demographic & Communication Action Research Cttee., Cttee. on Reproductive Biology & Fertility Control of I.C.M.R., New Delhi, etc., etc. *Address :* Population Centre, World Bank Project, A-31, Nirala Nagar, Lucknow 226001.

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AL-ESSA, H. E. Mr. Essa Abdul Rehman, Ambassador of Kuwait to India, since 1968. *b.* 1930. Min. of Finance & Kuwait Currency Board, 1953-62 ; Mem., Kuwait Embassy, Washington, 1962-65 ; Kuwait delegation to U.N. & also Consul-Genl. in Washington, 1963 ; Charge d'Affaires, Algiers, 1965-66 ; Tunisia, 1966-68. *Address :* Embassy of the State of Kuwait, 19, Friends Colony West, New Delhi 110014.

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ALI KHAN, Akbar, B.A., LL.B. (Hons.) (Lond.), Bar-at-Law, Governor of Orissa, since Oct. 1974. *b.* Nov. 20, 1899; Padma Bhushan (1965); Vice-Pres., Rec. Cttee., Indian National Congress, 1951; Mem. of Senate, Aligarh Univ., Jamia Millia and J. L. Nehru Univ.; Pres., Abdul Kalam Azad Oriental Research Instt., Hyderabad; was Mem., Rajya Sabha and its Hon. Vice-Chairman for a number of years; was also Dy. Leader of the Congress Parliamentary Party; Governor of UP., Nov. 14, 1972–Oct. 24, 1974. *Address :* Raj Bhavan, 751001.

ALI YAVAR JUNG BAHADUR, Dr. Nawab (Mirza Ali Yar Khan), B. A., Hons. (Oxford), Doctor of Laws (Honoris Causa), Osmania Univ., 1956, Padma Bhushan (1959), Governor of Maharashtra, since February 26, 1970. *b.* Feb. 16, 1905; Lecturer and then Reader, Modern History and Political Science, 1927-30; Prof., Modern History, Osmania Univ., 1930-34, Dir. of Information and Secy. Ext. Affairs Cttee., Nizam's Govt. 1935-37; Secy.: Constitutional Affairs, Information and Broadcasting, 1937–42; Home and Judicial, 1942–45; Vice-Chancellor: Osmania Univ., 1945–46 & 1948–52; Aligarh Muslim Univ., 1965–68; Minister, Local Self-Govt. & Public Health and later Education & Home, Nizam's Govt., 1946–47; resigned, 1947; Indian delegate, U.N. Gen. Assembly, 1946, 50, 52, 53, 54, and 55; Dy. Chmn., Indian delegation to the General Assembly, 1956, '57 & '60; Leader, Indian delegation to the Economic and Social Council, 1953; Chmn., U.N. Ad Hoc Cttee. for SUNFED, 1956; Amb. to: Argentina and Min. Pleni. to Chile, 1952-54; Egypt and Min. Pleni. to Lebanon and Libya, 1954-58; Yugoslavia, Greece and Min. Pleni. to Bulgaria, 1958-61; France, 1961-65; Mem.: U.G.C., 1966-68; Standing Cttee., Inter-Univ. Board & Academic Cttee., and Governing Board, School of Intn'l. Studies, 1966-68; Chmn., Study Team on Defence, Administrative Reforms Commn., 1967-68; Amb. to U.S.A., 1968-70; Member of cttee. appointed by the Pres. of India to consider and report on the Role of Governors, 1971. *Address :* Raj Bhavan, Bombay 400035.

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ATREYA, Dr. Bhikhan Lal, M.A., D.Litt., Padma Bhushan, 1957, Knight Commander, Italy, 1949, etc., Philosopher and writer; Editor: *Darshana International; Psychics International; Gaveshna* (Hindi). *b.* Sept. 24, 1897. *Address :* Atreya Niwas, P.O. Hindu University, Varanasi 221005.

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BAJAJ, Ramkrishna, Mg. Dir., Bajaj Electricals Ltd. *b.* Sep. 22, 1923. Chmn., Devpt. Corpn. of Vidarbha Ltd., Hindusthan Sugar Mills Ltd., Matchwel Electricals (India) Ltd., Bajaj International Ltd., etc.; Vice Chmn., Mukand Iron & Steel Works Ltd.; Dir., Andhra Valley & Power Supply Co. Ltd., etc.; Mem., Exec. Cttee., F.I.C.C.I., Indian Merchants' Chamber & A.I.M.O.; Ex-Pres., Maharashtra Chamber of Commerce & Fair Trade Practices Assocn. *Address :* 51, Mahatma Gandhi Rd., Bombay 400023.

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BANSI Lal, B.A., LL.B., Doctor of Laws (Honoris Causa), Kurukshetra Univ. 1972 ; Doctor of Science (Honoris Causa), Haryana Agri. Univ. 1972 ; Chief Minister, Haryana, since May 21, 1968. *b.* Aug. 26, 1927 at Golagarh village, Bhiwani Dist. Set up practice in Bhiwani, 1956 ; Mem., Rajya Sabha, 1960-66 ; was Secy., Loharu Praja Mandal ; was Pres., Hissar Dist. Cong. Cttee. ; elected to the Haryana Leg. Assembly from Tosham Constituency, 1967 & 1972 and in the mid-term poll, May 1968. *Address :* Chandigarh 160017.

BAPPU, Manali Kallat Vainu, A.M. (Harv.), M.Sc.(Madras), Ph.D.(Harv.) ; Fellow, Indian National Sci. Academy ; Indian Academy of Scs. ; Hon. Fellow, Royal Socy. of Scs. of Liege ; Dir., Indian Instt. of Astrophysics, Kodaikanal, since '60. *b.* Aug. 10, 1927. Co-discoverer, Comet Bappu-Bok-Newkirk, July '49 & was awarded Donohoe medal of Astronomical Socy. of Pacific ; Carnegie Post-doctoral Fellow, Mount Wilson & Palomar Observatories of the Carnegie Insttn. of Washington & California Instt. of Technology, 1951–52 ; Sr. Research Fellow, National Instt. of Scis. of India, '54 ; Dir., U.P. State Observatory, Naini Tal, 1954-60 ; Mem., Intnl. Astronomical Union & its Vice-Pres., 1967-73 ; Chmn., Indian National Cttee. for Astronomy, 1972–75 ; Pres., Astronomical Socy. of India ; Awarded Shanti Swarup Bhatnagar Prize, 1970 for contribution of Physical Sciences. *Address :* Indian Instt. of Astrophysics, Kodaikanal 624103.

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BEDEKAR, Gopal Vaman, B.Sc. (Bom.), B.Sc. Engg. (Lond.), Gen. Manager, Bennett, Coleman & Co., Ltd., Proprietors of The Times of India & Allied Publications, since Nov. 21, 1973. *b.* Oct. 10, 1908. Joined I.C.S., Nov. 1933 ; Asstt. Collector, Collector & Registrar of Co-op. Socs., Sind, 1933-41 ; Collector, Kaira, Thana & Bombay, 1941-46 ; Dy. Secy., Home, Delhi, 1946-49 ; Secy. to Govt., Home, Revenue, P.W., Civil Supplies, Edn., Agri., Bombay, 1949-58 ; Commr., Aurangabad, 1958–60 ; Spl. Secy., Gen. Adm., 1960-63 ; retired from I.C.S., Jan. 1964; Chmn., Commissions of Inquiry, Indu Mills & Municipal Matters, Bombay, 1964–70 ; Visiting Prof., Admve. Staff Coll., Bombay ; Vice-Pres., Bombay Natural History Socy. ; Trustee, Prince of Wales Museum ; Mem., Maharashtra State Board of Literature and Culture. *Address :* The Times of India Offices, Bombay 400001.

BEG, Mr. Justice, Mirza Hameedullah, B.A. (Hons.), M.A.(Cantab.), Barrister-at-Law, Judge, Supreme Court of India, since Dec. '71. *b.* Feb. 22, 1915 ; Honours in Anthropology & Archaeology and History Triposes from Trinity Coll., Camb. Called to the Bar from Lincoln's Inn., Lond. ; practised in Allahabad High Court ; became Judge, Allahabad High Court, '63 ; appointed Chief Justice, Himachal Pradesh High Court, '71 ; mem., Housernl. Law Assn., World Assn. of Judges. *Publications :* Papers on legal, political & cultural subjects and addresses at Seminars published by the Law Instt. & university organisations. *Address :* Supreme Court of India, Tilak Marg, New Delhi 110001.

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BHABHA, C. H., M.A., B.Com., Hon. Magistrate, Chairman : United Carbon India Ltd.; Kelvinator of India Ltd.; Spencer & Co. Ltd.; Dir., Investment Corpn. of India ; Andhra Valley Power Supply Co. Ltd. ; Tata Iron & Steel Co. Ltd.; Swadeshi Mills Co. Ltd., etc. *b.* July 22, 1910. Commerce Member, Interim Govt. of India, Sept. 1946 ; Mem., Works, Mines and Power, Govt. of India, Nov. 1946 ; Commerce Min., Govt. of India, 1947; Leader, Indian Delegation to and elected Vice-Pres., World Trade Cfce., Havana, Nov. 1947 ; Vice-Chmn., Rural Banking Enquiry Cttee. ; Chmn., Indian Banks Assn. (1955–61) ; Ex-Chmn., National Shipping Board. *Address :* 49, Cuffe Parade, Colaba, Bombay 400005.

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Tube Co. Ltd. ; Stewarts & Lloyds of India Ltd., etc. ; Chmn. : Tata Press Ltd., Tata Services Ltd. ; Tata McGraw-Hill Publishing Co. Ltd. ; Tata Institute of Social Sciences ; Trustee : Sir Dorabji Tata Trust, J. N. Tata Endowment, Lady Tata Memorial Trust, Homi Bhabha Memorial Trust etc. ; Trustee-in-Charge : National Centre for the Performing Arts ; Mem. : Board of Trustees, Prince of Wales Museum of Western India ; Board of Governors, Indian Instt. of Management, Ahmedabad ; National Instt. of Design, Administrative Staff Coll., Hyderabad ; Homi Bhabha Fellowships Council ; Indian Council for Cultural Relations ; Pres. : Friends of the Trees ; Ex. Com., Maharashtra State UNESCO Com. *Address : Res. :* 12, Little Gibbs Rd., Malabar Hill, Bombay 400006. *Office :* Bombay House, Bombay 400023.

BHAGWATI, Mr. Justice Prafullachandra Natvarlal, B.A. (Hons.) (*Maths.*), LL.B., Judge, Supreme Court of India. *b.* Dec. 21, 1921. Started practice, Bombay High Court, Feb. 1948 ; also practised in the Supreme Court and other High Courts ; Judge, Gujarat High Court, July 1960–Sept. 1967 ; Actg. Governor, Gujarat State, Dec. 7–25, 1967 ; Chief Justice, Gujarat High Court, Sept. '67–July '73. *Address :* Supreme Court of India, New Delhi 110001.

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BHATTACHARJEA, Ajit Kumar, B.A. (Hons.), M.A., Former Editor, *Everyman's*. *b.* May 8, 1924. Sub-Editor & Staff Corspdt., *Hindustan Times*, New Delhi, 1946-50 ; Staff Reporter, Parly. Corspdt. & Spl. Rep., *The Statesman*, New Delhi/Calcutta, 1950-61 ; Spl. Corspdt. for *Hindustan Times* in U.S. & at U.N., 1961-67 ; Editor, *Hindustan Times*, 1967-71. Resident Editor, *The Times of India*, Bombay, 1971-74. *Address :* 34, Nizamuddin East, New Delhi 110013.

BHAVE, Acharya Vinoba, Social Worker. *b.* Sept. 11, 1895, in Gagoda, Kolaba Dist., Maharashtra ; At the age of 10, took a vow of celibacy and dedicated his life to the service of the country ; joined the Sabarmati Ashram, 1916 ; was made the head of the new Ashram at Wardha ; started another hermitage at Paunar, near Wardha ; was named by Gandhiji as his first rep. in the individual C. D. movement, 1940 ; imprisoned in the Freedom movement ; originator of the Bhoodan Yagna Movement ; successfully persuaded the landlords to donate land, for the landless poor ; distributed more than 15 lakh acres among landless peasants ; has travelled on foot over 40,000 miles since Sept. 1951 to promote the cause of Bhoodan which has now reached the phase of Gramdan and Gram Rajya; undertook peace mission in dacoit infested areas of Bhind and Morena Dts. of M. P., 1960, where 20 dacoits have surrendered ; toured Rangpur and Dinajpur Dist. of E. Pak. in connection with Bhoodan Movement, 1962 ; has studied all religions ; is a linguist, knows all Indian languages. *Address :* Sarva Seva Sangh, Rajghat, Varanasi P.O. (U.P.).

BHOGILAL, Pratap, M.A., Industrialist. *b.* Oct. 25, 1916 ; Mem., Govg. Council, Bombay Textile Research Assn. and its past Pres. ; Cttee. Mem., Indian Merchants' Chamber, was its Pres. 1968 ; Cttee. Mem., Millowners' Assn. ; its Chmn. for three terms ; Cttee. Mem. : F.I.C.C. & I. ; Pres., Shree Ram Mills Ltd. ; Dir., and former Vice-Chmn., Hindustan Polymers Ltd. ; Director of many leading Investment, Engineering, Textile, Chemical and Manufg. Cos. *Address :* 26-A, B. G. Kher Marg, Malabar Hill, Bombay 400006.

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BOSE, Sunil Kumar, Sangeet Martand (1974), Scholar-musician, retd. Exec. Dir., Bharatiya Kala Kendra, Dir., A.I.R., New Delhi ; Mem., Univ. Grants Commn., Music Review Cttee. ; conducted performances and delivered lectures on music in India and Europe. *Address :* 18/18, W. E. A., Karolbagh, New Delhi 110005.

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CARIAPPA, General K. M., O.B.E. (1945) ; Former High Commr. in Australia and New Zealand and Former Commander-in-Chief, Indian Army. *b.* Jan. 28, 1900, in Coorg, South India. Commissioned from Daly Coll., Indore, Dec. 1919 ; saw service in Mesopotamia, 1920-22 ; N.W.F.P., 1923-25, 1928-30 and 1946, Staff College, Quetta, 1933-34 ; Iraq, Syria and Iran, 1941-42 and in Burma (Arakan), 1943-44 ; Imperial Defence Coll., Lond., 1947 ; Chief of the Gen. Staff for some time ; Major-General, Aug. '47–Dec. '47 ; G.O.C.-in-Chief, Eastern Command, Dec. 1947 as Lt. Gen. ; G.O.C.-in-Chief, Western Command, Jan. 1948 as Lieut. General ; Commander-in-Chief, Army, 1949-53 ; conferred "Legion of Merit" Degree of Chief Commander by Pres. Truman, U.S.A., May 1950 ; Hon. rank of a full Gen. in the Nepalese army, 1952, Hon. Degree of Doctor of Sci., Agra Univ., 1953. Indian High Commr. in Australia and in New Zealand. 1953–56. *Address :* The Roshanara, Mercara, Coorg, Karnataka State.

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CHANDRACHUD, Mr. Justice Yeshwant Vishnu, B.A., LL.B., Judge, Supreme Court of India, since Aug. 28, '72. *b.* July 12, 1920. Joined the Bombay Bar in '43 and practised till '61 ; Govt. Pleader, Bombay High Court, 1958-61 ; Judge, Bombay High Court, Mar. '61 — Aug. '72. *Address :* Supreme Court, Tilak Marg, New Delhi 110001.

CHARAT RAM, Industrialist. *b.* Jan. 1, 1918. Chairman : Jay Engg. Works Ltd., Shriram Refrigeration Industries Ltd. ; Hindustan Polymers Ltd., Shriram Pistons and Rings Ltd., etc. ; Mg. Dir. : Delhi Cloth & Gen. Mills Co. Ltd. ; Dir.: Bharat Steel Tubes Ltd., Tamil Nadu Chemical Products Ltd., etc., Pres. : FICC & I, 1973-74 ; Mem. : Board of Trade, GOI, Indo-U.K. Technological Group, Indian Instt. of Foreign Trade, New Delhi, Indian Cttee. for Studies on Economic Devlpt. in India & Japan (Plng. Commn.), Administrative Staff Coll., Hyderabad, Indian Instt. of Management, Ahmedabad, All India

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CHATTOPADHYAYA, Prof. Debi Prasad, M.A., LL.B., D.Phil., P.R.S., Ph.D., Union Min. of State for Commerce since Feb. 5, '73. *b.* Nov. 5, 1933. Elected to Rajya Sabha, 1969 ; Min. of State for Health & Family Planning and Works & Housing, May '71—Feb. '73. *Address :* 1, Sunehri Bagh Rd., New Delhi 110011.

CHAUDHURY, Mahendra Mohan, B.A., B.L., Governor of Punjab, since May '73. *b.* April 12, 1908. M.L.A., Assam, '46 ; Secy., Assam Congress Parl. Party, '47 ; Dy. Min. & later Min. of Supplies, etc., Assam, 1950-52 ; Min. for Agri., Food, etc., 1952-55 ; Pres., A.P.C.C., 1955-56 & '58 ; Gen. Secy., A.I.C.C., 1956-57 ; Mem., Rajya Sabha, '56 & 72 ; Speaker, Assam Leg. Assembly, 1958-67 ; Cabinet Min., 1967-70 & Chief Min., Assam, 1970-72. *Address :* Raj Bhavan, Chandigarh 160017.

CHAUDHURI, Tridib Kumar, M.A. (Econ.), C.U., M.P. (Lok Sabha), General Secy., R.S.P. ; Author and journalist. *b.* Dec. 1911. M.P., since 1952 ; Leader, R.S.P. in Lok Sabha ; Political prisoner ; 1931-37, 1940-46, and Portuguese Govt. in Goa, 1955-57 in connection with Goa, Liberation Movement ; Vice-Pres., U.T.U.C. *Address :* Revolutionary Socialist Party, Central Office, 780 Balimaran, Delhi 110006.

CHAVAN, Shankarrao B., Chief Minister, Maharashtra State, since Feb. 1975. *b.* July 14, 1920. Dy. Min. for Revenue, Bombay State, Nov. 1956 ; Min. for Irrigation and Power, 1960 ; also for Generation of Electricity, 1962 ; elected to Leg. Assembly from Dharmabad Constituency, 1972 ; re-elected from Bhokar Constituency, 1967 and 1972 ; Dy. Leader, Congress Leg. Party, since 1967 ; was Mem., Minimum Wages Cttee. for Agri. Labour ; Ex-Vice-Pres., Nanded Co-op. Central Bank and Ex-Dir., Hyderabad State Co-op. Bank ; Mem., A.I.C.C. & M.P.C.C. *Address :* Sachivalaya, Bombay 400032.

CHAVAN, Yeshwantrao Balwantrao, Min. Extnl. Affairs, Govt. of India, since Oct., 11, 1974 ; Governor on the Board of : Intnl. Monetary Fund ; World Bank ; Asian Devpt. Bank, since July 1970. *b.* March 12, 1913, at Devrashtre, Sangli Dist. Started legal practice at Karad ; Pres., D.C.C., 1941 ; Mem., Maharashtra P.C.C., since 1940 ; was its Secy., 1948, 1949 and 1950 ; elected M.L.A., Bombay, 1946 ; apptd. Parly. Secy., 1946 ; Min. for Civil Supplies, Bombay, 1952 ; was Min. for Local Self-Govt., Forests, Community Projects, Bombay ; elected leader, Cong. Leg. Party, Bilingual Bombay State, Oct. 1956 ; unanimously re-elected leader, 1957 ; Chief Min. : Bombay State, 1956-60 ; Maharashtra, May 1960-Nov. 1962 ; elected leader, Maharashtra Leg. Cong. Party, 1962 ; elected unopposed to the Lok Sabha in Nasik by-election, 1964 ; Min. for Defence, Govt. of India, 1962-66 ; Min. for Home, Govt. of India, 1966-70 ; participated in the Indo-Pakistan peace talks at Tashkent, Jan. 1966 ; Pres., Instt. for Defence Studies and Analysis. *Address :* 1, Race Course Rd., New Delhi 110011.

CHHIBBER, Sri Krishan, M.A., Lt.-Governor, Mizoram, since June 1974. *b.* Apr. 3, 1920. Appointed to I.A.S. and served as Asstt. Commr., Ferozepore ; Dy. Commr., Hoshiarpur, Jullunder & Amritsar, 1948-56 ; Chief Secy., Delhi State, 1956-58 ; Insurance Commr., E.S.I., 1958-62 ; Commr., Ambala Divn., 1962-64 ; Home Secy., Punjab, 1964-66 ; allotted to Haryana cadre and served as Home Secy.; Commr., Agri. Prodn.; Financial Commr.; Chmn., Warehousing Corpn. etc. ; Vice-Chancellor, Punjab Agri. Univ., etc.; Adviser to Governor, Manipur, June 1973–Mar. 1974. *Address :* Aizawl.

CHHUNGA, CH., Chief Minister, Union Territory of Mizoram. *b.* Nov. 12, 1922. Played important role in the formation of Mizo Union, Apr. '46 ; its Pres., 1952-71 ; Ex-mem., Autonomous Mizo Dist. Council & Assam Leg. Assembly ; spearheaded the demand for a separate Mizo State and headed the Coalition United Mizo Parly. Party Exec., '71 ; elected Mem., Mizoram Leg. Assembly, '72. *Address :* Saron Veng, Aizawl (Mizoram).

CHIDAMBARAM, Muthia Annamalai, Industrialist. *b.* Oct. 12, 1918. Chmn., South India Corpn. (Agencies) P. Ltd., Southern Petrochemical Industries Corpn. Ltd., Automobile Products of India Ltd., Bombay, and Maruti Ltd., Delhi ; was Dir., Indian Aluminium Co. Ltd. ; Hon. Consul-General for Philippines in Madras ; Hon. Secy., Tamil Isai Sangam ; Ex-Pres., Southern India Chamber of Commerce & Industry, 1951-57 ; was Pres., Board of Control for Cricket in India & All India Lawn Tennis Assn. ; Ex-Mayor, Madras ; Ex-Chmn. & Senior Steward, Madras Race Club ; Hon. Col., Indian Territorial Army. *Address :* South India House, 99, Armenian St., P.B. 113, Madras 600001.

CHINNAPPA, Kuppanda Muthayya, B.E., Industrialist ; *b.* Feb. 5, 1914. Chmn. : National Radio & Electronics Co. Ltd. ; Yashmun Engineers Ltd., Chemical Terminal Trombay Ltd. ; Mg. Dir. : Tata Hydro-Electric Power Supply Co. Ltd., Andhra Valley Power Supply Co. Ltd., Tata Power Co. Ltd. ; Dir. : Tata Industries Pvt. Ltd. ; Elpro Intnl. Ltd. ; Tata-Merlin & Gerin Ltd.; Exec. Cttee. Mem., Tata Consulting Engineers, Tata-Dilworth, Secord, Meagher & Associates ; Mem. : Steering Group on Power (Plng. Commn.) ; Board of Consultants (Power), Damodar Valley Corpn. ; Fellow : Institution of Engineers (India) ; won National Design & Res. Forum Award (1972) *Address :* Bombay House, Homi Mody St., Bombay 400023.

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CHOWGULE, Vishwasrao Dattaji, Industrialist-cum-Businessman ; Chmn. & Mg. Dir., Chowgule & Co. P. Ltd. *b.* Aug. 25 1915. Entered business of exporting tiles, timber, etc. and shipping agency; organised mining & export of iron ore from Goa in the late 40s besides pelletization of from ore from second half of 60s; actively associated with diversified fields such as shipowning, textiles, brewery, construction of self-propelled barges/crafts, tugs, dredgers, trawlers etc., processing & export of marine products, machine tools, etc. etc.; Trustee, Mormugao Port Trust; Mem., Iron Ore Board; Chmn., All India Shippers' Council. *Address :* Chowgule & Co. P. Ltd., Mormugao Harbour (Goa).

CHRISTIANSEN, H.E. Mr. Torbjorn Kristoffer, Ambassador of Norway to India, since Jan. 7, 1972. *b.* Oct. 7, 1924. Foreign Service Entrance Exam. (1953). Attache & Vice-Consul, Legation at Reykjavik, 1953-55; Second Secy., Embassy at Reykjavik, 1955-56; Secy., Min. of Foreign Affairs, Oslo, 1956-58 & Second and First Secy., Embassy at Tokyo, 1958-59; First Secy., Norwegian Permanent Delegation to U.N., 1961-64; Chief of Divn., Min. of Foreign Affairs, 1964-68; Nato Defence Coll., Rome, 1969; Counsellor, Embassy at Rome and Norwegian Permanent Rep. to FAO, 1969-72. *Address :* Kautilya Marg, Chanakyapuri, New Delhi 110021.

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DAHANUKAR, Dattatreya Mahadeo, Chairman and Mg. Director, The Maharashtra Sugar Mills Ltd.; Chmn.: Tilaknagar Distilleries & Ind. Ltd.; Dir.: Schrader-Scovill Duncan Ltd.; Zenith Steel Pipes Ltd.; Unicon Tyres Ltd.; Ceekay Automotive Products Ltd. etc; Mg. Dir., M. L. Dahanukar and Co. P. Ltd. *b.* Dec. 21, 1911; *Educ.:* Bombay. Mem.: The Indian Merchants' Chamber, Bombay; The Maharashtra Chamber of Commerce, Bombay; Bombay Management Assn., Bombay; F.I.C.C. & I., New Delhi. *Address : Office :* Industrial Assurance Bldg., Churchgate, Bombay 400020. *Res. :* 'Ratnakar', 26, Dr. B. Indrajit Rd., Malabar Hill, Bombay 400006.

DAHANUKAR, Shantaram Mahadeo, B.E., M. I.E., S.M. (U.S.A.). Industrialist. *b.* Sept. 30, 1913. Chairman: Belvandi P. Ltd., Deccan Merchants' Co-op. Bank Ltd., Planwel Consultants P. Ltd.; Vice Chairman, Centron Industrial Alliance Ltd.; Dir.: Bharat Commerce & Industries Ltd., The East India Hotels Ltd., Bennett, Coleman & Co. Ltd., Plastic Resins & Chemicals Ltd., etc. etc.; Pres., Property Owners' Assn., 1956-58, Maharashtra Chamber of Commerce, 1967-68, Sheriff of Bombay, 1968-69; The All India Manufrs. Orgn., 1970; Treasurer, B.P.C.C. 1971-72. *Address :* Industrial Assurance Bldg., Churchgate, Bombay 400020; *Res.* Shree Sadan, 4-A, M. L. Dahanukar Marg, Bombay 400026.

DALMIA, S. N., S.E.M., Industrialist. *b.* April 10, 1927. Chairman, Director and/or Partner, Ramkumar Beniprasad, Hind Enterprises, Dalmia Industries P. Ltd., North Bengal Sugar Mills Co. P. Ltd., Shri Gaurishanker Jute Mills Co. P. Ltd., Gunny Exporters P. Ltd., General Produce Co. P. Ltd., etc.; Ex-Commr. Port of Calcutta. *Address :* 21, R. N. Mukherjee Rd., Calcutta 700001.

DALMIA, Seth Ramkrishna, Industrialist. *b.* April 7, 1893. Founder of the Dalmia-Jain Group of Industries including banks, insurance and investment companies, factory chains of cement and sugar factories, chemicals, biscuit factories, aviation companies, railways, collieries, publishing house and newspapers; is one of the biggest philanthropists. *Address :* 27, Akbar Rd., New Delhi 110011.

DALMIA, Vishnu Hari, Industrialist. *b.* May 1924. Chmn.: Dalmia Cement Ltd.; Orissa Cement Ltd.; Raza Buland Sugar Co., Ltd.; Exec. Dir.: Dalmia Cement (Bharat) Ltd.; Vice Pres., World Fed. of U.N. Assocn., Geneva; Ex-Pres.: Cement Manufrs'. Assn.; Indian Sugar Mills Assn.; All India Distillers' Assn.; Mem.: Main Cttee. of F.I.C.C. & I. *Address : (Office) :* 4, Scindia House, New Delhi 110001.

DAMANI, Surajratan Fatehchand, Industrialist; Chmn. & Mg. Dir., Simplex Mills Co. Ltd., Bombay. *b.* June 16, 1912. Started career in Bombay Bullion & Stock Exchange; Cttee. Mem., & Ex-Chmn., Millowners' Assocn., Bombay; Cttee. Mem., Indian Cotton Mills' Fedn.; Treasurer, Congress Party in Parliament, 1969-71; Mem., Lok Sabha and life mem., Indian Parl. Assn. *Address :* 11, Cuffe Parade, Colaba, Bombay, 400005.

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DEMPO, Vasantrao Srinivasa, Industrialist ; Chmn., Goa Carbon Ltd. ; Chmn. & Mg. Dir., Dempo Steamships Ltd. & V. S. Dempo & Co. P. Ltd. *b.* Mar. 4, 1916. Dir., Goa Shipyard Ltd., S. India Shipping Co. Ltd., West Coast Hotels Ltd., Dempo Mining Corpn. Pvt. Ltd., Navhind Papers & Pubns. Pvt. Ltd., etc. ; Mem., India Cttee., Lloyds Register of Shipping ; Pres., Goa Chamber of Commerce, '73 ; Goa Mineral Ore Exporters' Assn., 1967-68 & again in '68 ; Trustee, Mormugao Port Trust. *Address :* Dempo House, Campal, Panaji (Goa).

DEO, Madhav Gajanan, M.B.B.S. M.D., Ph.D., F.N.A., Shakuntala Amir Chand Prize, I.C.M.R. (1966), Khanolkar Prize, Indian Assn. of Pathologists (1966) ; Amrit Mody Award (1972) ; Fellow, Indian Sci. Academy (1974) ; Scientist ; Professor of Pathology, All India Instt. of Medical Sciences, New Delhi, since 1974. *b.* Apr. 6, 1932 Assoc. Prof. of A.I.I.M.S., 1968-74 ; invited speaker at symposia on use of primates in Biology & Medicine, Portland, U.S.A., 1972 & Adaptation to low Nutrient Intake, Mexico City., 1972. *Address :* CII/31, Ansari Nagar, New Delhi 110016.

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Instt. for Training & Research, 1966-71. *Address :* 40, Lodi Estate, New Delhi 110003.

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DEVARAJULU, G. K., Industrialist ; Pres., All India Orgn. of Industrial Employers, 1970-72 ; Ex-Chmn., Indian Cotton Mills Fedn., 1965-67. *b.* Dec. 7, 1912. Chmn., & Dir. : Lakshmi Machine Works Ltd. ; Lakshmi Mills Co. Ltd., Coimbatore Cotton Mills Ltd. ; Mg. Dir., South India Viscose Ltd. ; Dir. : Dhrangadhra Chemicals Ltd., Bombay, & other Cos. ; Mg. Trustee, G. Kuppuswamy Naidu Memorial Trust for Educ. & Medical Relief ; Ex-Chmn. : South India Textile Research Assn., Coimbatore ; Exec. Cttee. Mem., F.I.C.C. & I., New Delhi. *Address :* 'Shell House', Avanashi Rd., Coimbatore 641018.

DHAON, Daya Krishna, M.Sc. (Math.), 1st Class, First ; M.A. (Cantab), Natural Sciences Tripos Part II Physics, Chairman, Hindustan Copper Ltd., since Feb. '70. *b.* Aug. 2, '34. Asstt. Mathematics Professor, Gorakhpur Univ., Oct. '58-Mar. '59 ; Executive, Bird & Co. P. Ltd., April '59-Feb. '70. *Address :* Hindustan Copper Ltd., Industry House, 14th Flr., 10, Camac St., Calcutta 700017.

DHAWAN, Dr. Satish, B.A., M.A. (Eng. Litt.), B.Sc. (Engg.), M.S., Ae.E., Ph.D., D.Sc.(Honoris Causa), Roorkee, 1972,F.R.Ae.S., F.A.Sc., M.Ae.S.I., Foreign Hon. Mem. of the American Acad. of Arts & Scs., Padma Shri (1966), Padma Bhushan (1971) ; Director, Indian Instt. of Science, Bangalore, since 1963 ; Secy. to the Govt. of India, Deptt. of Space ; Chmn.: Space Commission, since June 1972 ; Indian Space Res. Orgn., since Sept. 1972 . *b.* Sept. 25, 1920. Sr. Scientific Officer, Deptt. of Aeronautics, Ind. Instt. of Science, 1951 ; Asstt. Prof. & Prof. and Head of Deptt. of Aeronautics, 1953-55 ; One-man Cttee. for the Evaluation of AVRO HS-748 aircraft, 1973 ; Exec. Delegate for India, Commonwealth Advisory Aeronautical Research Council, 1964-71 ; Mem., Board of Directors, Hindustan Aeronautics Ltd., 1964-72 ; U.G.C., 1966-71 ; Scientific Advisory Cttee. to the Cabinet, 1965-68 ; *Address :* Indian Instt. of Science, Bangalore 560012.

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DIEHL, H.E. Mr. Guenter, Ambassador of the Federal Republic of Germany to India, since April 18, 1970. *b.* 1916 ; *Educ. :* Cologne and Bordeaux. German Foreign Office, 1939 ; served in the German Embassies at Brussels and Vichy during World War II ; a journalist, 1945–50 ; Press and Information Office, Fed. Rep. of Germany, 1950–52 ; Spokesman for the Min. of Foreign Affairs, Bonn, 1952–56 ; Counsellor, German Embassy, Santiago, 1956–60 ; Press and Information Office, Fed. Rep. of Germany, 1960–66 ; Head of Plng. Dept., Min. of Foreign Affairs, 1966–67 ; Secy. of State at Bonn, 1968–70. *Address :* 6, Block 50-G, Shanti Path, Chanakyapuri, New Delhi 110021.

DIKSHIT, Uma Shankar, Minister of Shipping & Transport, Govt. of India, since Feb. 10, 1975. *b.* Jan 12, 1901. Participated in Non-Cooperation & Quit India Movement ; Custodian, Evacuee Property, New Delhi, 1948-52 ; Hony. Adviser, National Small Inds. Corpn., 1956 ; Chmn., British India Corpn., Feb. 6, 1971 ; Ex-Mg. Dir., Associated Journals Ltd., Lucknow ; Dir. and then Chmn., P.T.I., Sept. 23, '65 to June 27, '68 ; Dir., Indian National Press, May 19, '67 ; Export Credit & Guarantee Corpn. Ltd., Oct. 16, '67 ; Mem., Central Taxes Adv. Cttee., Oct. 6, '67 ; Exec. Cttee., I.E.N.S., Aug. 7, '64 ; A.I.C.C., Jan. '68 ; Treasurer, A.I.C.C., Nov. 23, '69 & Gen. Secy., Feb. 1, '71 ; again Treasurer, Apr. 14, '71 ; Union Min. for Health & Family Plng., May '71 to Feb. '73 ; Mem., Rajya Sabha, '61-70 ; re-elected, Apr. '70, Min. of Home Affairs, Govt. of India, 1973-75. *Address :* Transport Bhavan, Parliament St., New Delhi 110001.

DINESH MOHAN, Prof., C.E. (Hons.) Roorkee (1943), Post-graduate Studies, U.K. (1944-46), Padma Shri (1974), Dir., Central Bldg. Research Instt., Roorkee, since Oct. 1961. *b.* July 14, 1922 ; Associated with Central

Bldg. Research Instt., since inception in 1947; specialised in Soil Mechanics & Foundation Engg. *Address :* CBRI, Roorkee 247667.

DIVAN, Bipinchandra Jivanlal, M.A., LL.B., Advocate (O.S.), Chief Justice, Gujarat High Court, since July 1973. *b.* Aug. 20, 1919. Judge & Principal Judge, City Civil & Sessions Court, Bombay, Nov. 1954 — May 1961; Judge, Gujarat High Court, Apr. 1962 — July 1973. *Address :* Gujarat High Court, Navrangpura, Ahmedabad 380009.

DIVAN, Smt. Sharda Baburao, M.A. (Bombay), Vice-Chancellor, S.N.D.T. Women's Univ., since Dec. 1969; Mem.: Adv. Body, All India Radio; General Body, National Council of Educational Research and Training; Indian Univ. Assn. of Continuing Education; Hon. Col. Commandant, N.C.C. Govt of India. *b.* Jan. 31, 1903; Dean, Faculty of Arts, S.N.D.T. Women's Univ., 1957-69. *Address :* "Purivilla", 20, Laburnum Rd., Bombay 400007.

DOSHI, Maganlal Harilal, Chmn., Silk & Art Silk Mills' Assn. Ltd., since Oct. 1973; Manufacturer & Exporter of Rayon/Synthetic Fabrics, Steel Forging, Automobile Parts, etc. *b.* Nov. 8, 1925. Joined Sharda Dyeing & Printing Works, Bombay, 1949; Partner: Neeru Silk Mills; Mansukh Dyg. and Ptg. Mills; Dir., Echjay Industries P. Ltd.; Mem., Cttee. of Admn. of Silk & Rayon Textile Export Promotion Council; SASMIRA & Rayex (India) LTD. *Address :* Silk & Art Silk Mills' Assn. Ltd., Resham Bhavan, 78, V. Nariman Rd., Bombay 400020.

DUTT, Rabindra Chandra, B.A. (Econ.) (Hons.) (Calcutta), Econ. Tripos (Cantab.), I.C.S. (Retd.), Chairman, Iron Ore Board; Board of Management, BURN — ISW (West Bengal). *b.* Nov. 5, 1912. Passed I.C.S., 1936. *Address :* 3, Kautilya Marg, Chanakyapuri, New Delhi 110021.

DWARKA, His Holiness the Jagadguru Shankaracharya Swami Shri Abhinava Sachchidananda Tirthji Maharaj of Sharada Peeth, of, Spiritual Head of W. India; Scholar & Linguist; *b.* Sept. 25, 1919. Took Holy orders, 1934; installed at Dwarka on the Holy seat of Shri Shankaracharya of W. India, June 20, 1945; Pres., All India Dharma Sangh Cfce.; recognised by the Govt. as the Shankaracharya of Dwarka and a Primate of Hinduism; Founder & Pres., Shri Sharada Peeth Vidya Sabha; Dwarakasamsthan-Adyamtakendra at Bangalore; inaugurated IV & V Intnl. Yoga Conventions at Gondia, 1967 & Raigarh, 1968; installed present Shankaracharyas on Govardhanpeeth (Puri) and Jyotirpeeth (Badrikedar); Patron, Vishva Hindu Parishad. *Address :* Dwarka (W. Rly.).

ESWARAN, Kulathu Iyer, Businessman. *b.* March 8, 1909. Chmn. and Mg. Dir.: Hackbridge-Hewittic and Easun Ltd.; Eswaran & Sons Engineers Pvt. Ltd.; Chmn. & Dir., Easun Products of India Pvt. Ltd.; Dir.: Enfield India Ltd., Indian Organic Chemicals Ltd., Export Credit & Guarantee Corpn. Ltd,; Chmn,, Export-Import Adv. Cttee. (S. Region); Vice-Pres. & Chmn.: Indian Red Cross Soc., Tamil Nadu; Mem.: Adv. Cttee. on Trade; Dev. Council for Heavy Electrical Industries; Regl. Bd. E.S.I.C. Tamil Nadu; CSIR Complex Adv. Cttee. etc. *Address : Res. :* "Sudhama", 6, Sir Desikachari Rd., Madras 600004; *Office :* 5–7, Second Line Beach, Madras 600001.

FERNANDES, George, Chairman, Socialist Party, President, All India Railwaymen's Federation. *b.* June 3, 1930. Joined the Socialist Party, 1949; organised dock, transport, municipal, hotel and other workers since 1951; Founder-Mem. and Mem., National Cttee., Socialist Party, since 1955; Gen. Secy., S.S.P., 1969–71; Treasurer, Hind Mazdoor Sabha, 1958; Gen. Secy., Hind Mazdoor Panchayat, Socialist TUC since 1958; Founder-Chmn., Bombay Labour Co-op. Bank, 1968; Mem., B.M.C., 1961–68; M.P., 1967–70; played key role for the merger of S.S.P., P.S.P., & I.S.P., 1971. *Address :* S-114, Panchshila Park, New Delhi 110017; Tejpal Bldg., Kemp's Corner, Bombay 400007.

GADGIL, Gangadhar, M.A., Marathi Writer; Economic Adviser, Laxmi Vishnu Textile Mills Ltd., Bombay; Dir., Indcon Consultancy Pvt. Ltd. *b.* Aug. 25, 1923. Awarded first prize in the Marathi short story competition held under the auspices of the *New York Herald Tribune*; awarded prizes for his books *Talavatalen Chandane, Ole Unha* and *Sata Samudra Palikade* by the Bombay Govt., 1956, 1958, 1960. *Address :* 4, 'Abhang', Sahitya Sahawas, Bandra (E), Bombay 400051.

GAJENDRAGADKAR, Dr. Pralhad Balacharya, M.A., LL.B., LL.D., Padma Vibhushan (1972), Hony. Chmn., Law Commn. since Oct. 1, 1971, was Vice-Chancellor, Bombay Univ., 1966–1971. *b.* March 16, 1901. Joined Bombay Appellate Side Bar, 1926; Judge: Bombay High Court, 1945–57; Supreme Court, 1957–64; Chief Justice of India, 1964–66; Chmn.: Bank Award Commn. 1955; Dearness Allowance Commn. 1966–67; Jammu & Kashmir Commn. of Inquiry 1967–68; National Commn. on Labour, 1967–69; B.H.U. Inquiry Cttee., 1968–69; Ind. Council of Agri. Res. Inquiry Cttee. 1972. *Address :* Hony. Chairman, Law Commission, Shastri Bhavan, Dr. R. Prasad Rd., New Delhi 110001.

GANDHI, Smt. Indira, Bharat Ratna (1972); Prime Minister of India, since Jan. 24, 1966, also in charge of Atomic Energy since Sept. 1967, Space, since June 1972, Home, June 1970–Nov. 1973, also held charge of Extnl. Affairs, Sept. 1967–Feb. 1969, Finance, July 1969–June 1970, Infn. and Broadcasting, since March 1971; Chairman, Plng. Commn. *b.* Nov. 19, 1917, at Anand Bhavan, Allahabad. Became a member of the Congress, 1938; Mem., Wkg. Cttee., A.I.C.C., 1955; Pres., Women's Deptt. A.I.C.C.; Mem., Central Election Cttee. and Central Parly. Board of the A.I.C.C.; Pres.: Bal Bhavan Board; Pres. and Founder: Bal Sahyog, New Delhi; Kamala Nehru Vidyalaya, Allahabad; Vice-Pres., Intnl. Council for Child Welfare; elected Pres., Indian National Cong., Feb. 1959; Min. of Information and Broadcasting, Govt. of India, June 1964–Jan. 24, 1966; apptd. Mem., Emergency Cttee. of the Central Cabinet and National Defence Council, July 1964; elected to the Rajya Sabha unopposed from U.P. Aug. 21, 1964; visited the U.K., Yugoslavia and U.S.S.R., Oct. 1964; Chmn., Third Intnl. Film Festival Cttee., Jan. 8–21, 1965; Chmn., Sangeet Natak Akademi, since Dec. 14, 1965; received: Mother's Award, U.S.A., 1953; Yale Univ. Howlan Memorial Prize, 1960; awarded the "Isabella D'este" Prize for outstanding ability by the Italian Govt., Nov. 1965; Doctor of Literature (*honoris causa*) at the Agra Univ. Convocation, Dec. 4, 1965; Hon. Doctor of Law, Waseda Univ., Japan (1969); Mexican Academy Award for Liberation of Bangla Desh 1972; 2nd Annual Medal, F.A.O., 1973; elected leader Cong. Party, Jan. 19, 1966; Chancellor: Visva Bharati Univ., J.N. Univ., N.E. Hill Univ.; elected to the Lok Sabha from Rae Bareli, Feb. 1967; again elected Leader, Cong. Parly. Party, March 12, 1967 and after Mid-term poll in March 1971. Four-day State visit to Ceylon, Sept. 1967; participated in the 50th Oct. Revolution, Moscow, Nov. 1967; went on a 14-day tour of South-East Asia to Singapore, Australia, New Zealand, Malaysia, May–June 1968 ; went on a 28-day tour of South American Countries, Brazil, Uruguay Argentina, Chile, Colombia, Venezuela, Trinidad and Tobago and Guiana, Sept.–Oct. 1968 ; attended the Commonwealth Prime Ministers' Cfce., London, Jan. 1969 ; State visit to : Burma, March 27–30, 1969 ; Japan, June–July 1969 ; Indonesia, July 1969 ; to Mauritius, June 2–6, 1970 ; participated in the Cfce. of Non-alligned Countries in Lusaka, Sept. 1970 ; U.N. Silver Jubilee Celebrations Oct. 1970 ; went on a 20-day tour of Belgium, Austria U.K., U.S.A., France, N. Germany, Oct. 1971 ; Visited Bangladesh, Mar. 17–19, 1972 ; went on a 11-day tour of Sweden, Czechoslovakia, Hungary, June 1972 ; visited Yugoslavia, June 15–17, 1973 ; visited : Canada, June 17–24, 1973 ; Iran, April 28–May 1, 1974 ; Iraq, Jan. 18–20, 1975. *Address :* 1, Safdarjung Rd., New Delhi 110011.

GANESAN, Sivaji, Padma Shri, 1966, a leading Cine Artiste. *b.* Oct. 1, 1928. Joined a Drama Troupe at the age of six ; Best Actor Award at the Afro-Asian Film Festival, Cairo, 1960, for the picture, 'Veera Pandiya Kattabomman' ; winner of Best Actor Award from Tamil Nadu Govt. and many Film Journals. *Address :* 11, Boag Rd., T. Nagar, Madras 600017.

GANESH, K. R., Minister of State for Petroleum & Chemicals, Govt. of India, since Oct. 11, '74. *b.* June 21, 1922 ; Chmn., Centre for Social Res., Madras ; Formerly General Secy. Indo-Soviet Cultural Society ; Mem., Home Minister's Adv. Cttee. for the Union Territory of Andaman & Nicobar Islands ; M.P. from Andaman & Nicobar Islands, since '67 ; Member, Delegation Indian Peace Council to World Conference on Vietnam 1967 at Stockholm ; Mem., Indian Delegation to the U.N. Gen. Assembly Session, '69 ; Leader, Indian Delegation, U.N. Seminar, Tokyo ; Leader, Indian Delegation, Colombo Conference, New Zealand ; Dy. Min. for Finance, Govt. of India, June 26, '70–May 1, '71 ; Mini. of State for Finance, Govt. of India, since May 2, '71. *Address :* Ministry of Petroleum & Chemicals, Shastri Bhavan, New Delhi-110001.

GARWARE, B. D., S.E.M., Padma Bhushan (1971), Ex-Sheriff of Bombay, Industrialist. *b.* 1903. Chmn. and Mg. Dir. : Garware Nylons Ltd. ; Garware Plastics Pvt. Ltd. ; Garware Synthetics Bristles Pvt. Ltd. ; Garware Filament Corpn. Pvt. Ltd. ; Garware Motors & Engineers Pvt. Ltd. ; Garware Fin. Corpn. Pvt. Ltd. ; Chmn,, Maharashtra State Fin. Corpn. ; Vice-Chmn. and Dir, Central Bd. of the State Bank of India ; Founder of several charitable trusts. *Address :* Chander Mukhi, Nariman Point, Bombay 400021.

GHATAGE, Dr. Vishnu Madhav, M.Sc., D.Phil., FRAES, MIE, FASC, FNI, FAAIA, MAESI, C.E.; Padma Shri; Scientist ; Mg. Director, Product Designers Private Ltd., Bangalore. *b.* Oct. 24, 1908. Prof. of Aeronautical Engg., Indian Instt. of Sc., 1942–47 ; Chief Designer HAL ; indigenously designed, developed and produced (*i*) HT-2 — Trainer Aircraft, (*ii*) Pushpak — Light Trainer Aircraft, (*iii*) Krishak and (*iv*) "Kiran" ; also designed and developed a Turbojet Engine (HJE-2500) for the Jet Trainer. Gen. Manager, HAL, 1967–69. *Address : Office & Res. :* 7, Bore Bank Rd., Bangalore 560046.

GHOSH, Tushar Kanti, Padma Bhushan (1964), Editor and Mg. Dir., *Amrita Bazar Patrika*, Calcutta ; Mg. Dir., *Jugantar*. *b.* Sept. 21, 1898. Founded : *Jugantar* (Calcutta), Bengali daily ; *Allahabad Patrika*, English daily and *Amrita*, a Bengali Weekly at Calcutta. Pres. : A.I.N.E.C., 1946–47 ; I.E.N.S. ; 1948–49 ; Ex-Chmn., P.T.I. ; U.N.I. ; Chmn., A.B.C.; Trustee, Press Instt. of India ; Vice-Pres. and mem. ; Exec. Cttee., Intnl. Press Instt. ; Chmn., Indian Sect., Commonwealth Press Union. *Address :* Editor, *Amrita Bazar Patrika*, Calcutta ; Chief Editor, *Northern India Patrika*, Allahabad 211001.

GHURBURRUN, H.E. Mr. Rabindrah, High Commissioner for Mauritius to India and Dean, Diplomatic Corps, New Delhi. *b.* Sept. 27, 1929 ; was called to the bar at the Middle Temple, 1959. Has been Pres. of the following assns. in Mauritius : Hindu Education Authority, since 1960 ; Sugar Cane Planters' Assn., 1962–63 ; National Congress of Young Socialists since 1962 ; Arya Sabha, Mauritius, 1962–65. *Address :* High Commission of Mauritius, 5, Kanlilya Marg, New Delhi 110021.

GIRI, V. V., Barrister-at-Law, Bharat Ratna (1975). Former President of India. *b.* Aug. 10, 1894, in Berhampore. Trade Union Leader ; was General Secy. and Pres. of the All-India Railwaymen's Fedn. ; twice Pres., A.I.T.U.C. ; Indian Workers' Delegate to the Intnl. Labour Cfce., Geneva, 1927 ; Workers' Rep. at the Second R.T.C., London, 1931 ; Mem., Central Leg. Assembly, 1934–37 ; Min. for Labour, Industries and Co-op., Madras, 1937–39, 1946–47, Indian High Commr. in Ceylon, 1947–51, Union Min. for Labour, May 1952–Sept. 1954 ; M.P., Lok Sabha, 1952–57 ; Elected Pres., Indian Cfce. of Social Work, 1958 ; Governor of U.P., 1957–60 ; Founder Pres., Indian Socy. of Labour Economics ; Governor of Kerala, 1960–65 ; Governor of Karnataka, 1965-1967 ; Vice-Pres. of India, May 13,1967 to May 3, 1969 ; Acting Pres. of India, May–July 1969 ; President of India, Aug. 24, 1969 to Aug. 23, 1974. State visit to Ceylon, Jan. 8–12, 1970 ; to Switzerland, Finland & Poland, June 8–20, 1970 ; to U.S.S.R., Bulgaria and Hungary, Sept. 21–Oct. 7, 1970 ; to Singapore, Sept. 14–17, 1971 ; to Thailand, Mar. 27–30, 1972 ; to Yugoslavia and Afghanistan, July 4–14, 1972 ; to Ethiopia, Tanzania & Zambia, Sept. 24–Oct. 6, 1972 ; to Malaysia, Mar. 5–7, 1973 ; to Rumania & Czechoslovakia, Oct. 3–10, 1973. *Address :* Girija, Jayanagar, Bangalore 560011.

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JOSHI Harideo, Chief Minister, Rajasthan, since Oct. 11, 1973. *b.* Dec. 17, 1921. Participated in the 1942 & States' Peoples Movement; Mem., A.I.C.C., since '49; Gen. Secy., Rajasthan P.C.C., 1950-59 & later its Pres.; M.L.A. since 1952; Chmn., Public Accounts Cttee. of the House; Chief Whip, 1957-63; Min. for Irrigation, P.W.D., Ind., etc., 1965-73; was Dy. Leader of the Congress Party in the State Legislature. *Address:* Jaipur 302001.

JOSHI, Shri Krishna, M.Sc., D.Phil., F.N.A.; F.I.A.Sc.; Watumull Memorial Award (1965), CSIR Silver Jubilee Award (1973), Scientist; Prof. & Head, Physics Deptt., Roorkee Univ. *b.* June 6, 1935. Lecturer, Allahabad Univ., 1957–65; Visiting Lecturer, Univ. of California, 1965–67; short-term visits to Argonne National Laboratory, U.S.A., '66 & Intnl. Centre for Theoretical Physics, Trieste, Italy, '69 & '71; have conducted & guided research in Solid State Physics, Atomic & Molecular Physics. *Address:* Physics Deptt., Roorkee Univ., Roorkee 247667 (U.P.).

JOSHI, Shridhar Mahadev, B.A., LL.B., Politician; Mem., Exec. Council, Univ. of Poona since 1972; Ex-Chmn., Samyukta Socialist Party; Social Worker, *b.* Nov. 21, 1904. Joined Congress, 1930; Founder Mem., Cong. Socialist Party; Mem., Bombay Assembly, 1952–62; M.P. 1967–72; Gen. Secy.: Samyukta Maharashtra Samiti; Vice-Pres., All India Defence Employees' Fed. *Address:* 1170, Sadashiv, Pune 411002.

JOSHI, Umashankar Jethalal, M.A.; Bharatiya Jnanpith Award for 1967 with Dr. K. V. Puttappa, Sahitya Akademi Award for 1973; Gujarati Poet, Critic, Essayist; Former Vice-Chancellor, Gujarat Univ., Nov. 1966–Nov. 1972; Mem.: Rajya Sabha (nominated) since

April 1970; Vice-Pres., Indian P.E.N., Editor, *Sanskriti*, Gujarati monthly, since 1947. Courted imprisonment during C.D. movement, 1930 and 1932. *b.* July 21, 1911. *Address :* 'Setu', 26, Sardar Patel Nagar, Ahmedabad 380006; 206, V. P. House, Rafi Marg, New Delhi 110001.

JURGENSEN, H.E. Mr. Jean-Daniel, *Agrege* of Letters, Croix De Guerre, 1939–45 & Officer of the Legion of Honour, Ambassador of France to India, since Oct. 30, 1972. *b.* July 4, 1917; Mem.: French Parliament (National Assembly), 1944–46; French delegation to U.N., 1947; Head Desk of Africa and German Affairs, Foreign Min., 1951–55; Head, Dest of German Affairs, 1955–59; Dy. Rep. to N.A.T.O., 1959–64; Dir. of American Affairs, 1964–69; Dy. Dir. of Pol. Affairs, 1969–72. *Address :* French Embassy, 2, Aurangzeb Rd., New Delhi 110011.

JUSSAWALLA, Dr. Darab Jehangir, M.B.B.S., M.S., F.R.C.S., F.I.C.S., F.A.C.S., F.A.M.S., Padma Bhushan (1975); Director, Tata Memorial Centre & Head of the Dept. of Surgery, Tata Memorial Hosp., Bombay; Hon. Founder Secy. & Mg. Trustee, Indian Cancer Socy; established Chemotherapy & Cancer Cytology Units, '60; Social Rehabilitation Services & Workshop for indigent cancer patients, '61; Population-based Cancer Registry, Bombay '63 & Pune, '73; Fellow, American Coll. of Surgeons, '62; Academy of Medical Sciences, India, '66; Royal Socy. of Medicine, London; Assn. of Surgeons of India; WHO Expert Cttee. on Cancer; Pres., "SOCLEEN", Bombay; Vice-Chmn., Asian Fedn. of Cancer Socs., Tokyo; Mem., UICC Council (Geneva); Founder-Secy., Internl. Assn. of Cancer Registries; Corresponding Fellow, Assn. of Surgeons of Gr. Britain & Ireland. *Address :* Tata Memorial Centre, Dr. E. Borges Mrg., Parel, Bombay 400012.

KAKODKAR, Smt. Shashikala Gurudutt, B.A. (Hons.), M.A. (His.), Chief Minister, Goa, Daman & Diu, since Aug. 13, 1973. *b.* Jan. 7, 1935. Chmn./Mem., Social Welfare Board; Public Accts. Cttee., 1967-72; Mem., Rules Cttee. of the Leg. Assembly, 1967-72; elected to the Assembly Mar. '72; Min. of State, Mar. '72-Aug. '73. *Address :* Panaji (Goa).

KAMALADEVI CHATTOPADHYAY, Smt. Politician and Social Worker; Ex-Chmn., All-India Handicrafts Board. *b.* 1903. Mem., AICC and Wkg. Cttee., Orgg. Secy., then Pres., All India Women's Cfce.; Pres. Indian Co-op. Union; Vice-Pres., World Crafts Council; Founder, Indian National Theatre Centre of the Intnl. Theatre Instt.; Fellow, Sangeet Natak Akademi 1974; awards: Watumal, Magsaysay for Community Leadership, 1966, "Deshikottama" title awarded by Vishwa Bharati Univ. at Shantiniketan for outstanding achievements, 1970. *Address :* 20, Canning Lane, New Delhi; 6, Chateau Marine, Marine Drive, Bombay 400020.

KAMANI, Rasik Ramji, Chmn.: Kamani Engg. Corpn. Ltd., Jaipur Metals & Electricals Ltd., Chmn & Mg. Dir., Indl. Jewels Ltd., Kamani Tubes Pvt. Ltd. & Kamani Metallic Oxides Pvt. Ltd. (since Nov. 17, '72), Indian Rubber Regenerating Co. Ltd. *b.* May 20, 1920. Started career with Kamani Enterprises '42; Chief Executive, Kamani Engg. Corpn. Ltd.; Dy. Mg. Dir., Oct. '61; Jt. Mg. Dir., Oct. '67; Mg. Dir., July '68; Ex-Chmn., Engg. Assn. of India (W. Regn.); *Address :* Kamani Chambers, 32, Ramjibhai Kamani Marg, B. Estate, Bombay 400038.

KAMARAJ, K., M.P. (Lok Sabha), Ex-Pres., Indian National Congress; Ex-Chief Min., Madras State. *b.* 1903. Entered public life, 1920; elected Mem., Wkg. Cttee., Tamil Nad Cong., and Mem., A.I.C.C., 1931; elected Secy., T.N.C.C., 1935; elected to Madras Leg. Assembly, 1937 and again in 1946; elected Chmn., Virudhunagar Municipality, 1941; under detention, 1942–45; elected to the Constituent Assembly of India, 1947; chosen as a Mem., A.I.C.C. Wkg. Cttee., 1949; elected to Parlt., 1951 and in bye election from Nagercoil, 1969; Pres., T.N.C.C., 1939–54; elected Leader, Madras Leg. Cong. Party, March 30, 1954, 1957 and 1962; Chief Min., Madras, 1954–63; sponsored the "Kamaraj Plan" for revitalising the Cong. orgn.; resigned under this plan for party work, Oct. 2, 1963; Pres., Indian National Congress 1963–68; elected to Lok Sabha 1971. *Address :* No. 8, Tirumalai Pillai Rd., Tyagaraja Nagar, Madras 600017.

KANORIA, Shyam Sundar, Mg. Dir., Kanoria Chemicals & Ind. Ltd. *b.* Jan. 28, 1928; Dir.: U.P. State Ind. Dev. Corpn. Ltd., Ratnakar Shipping Co. Ltd., India Jute Co. Ltd., Kamarhatty Co. Ltd., New Gujrat Cotton Mills Ltd., Rajasthan Spg. & Wvg. Mills Asson., Amines and Plasticizers Ltd., Kanoria-Haycock-Sanderson Ltd., Indian Aluminium Cables Ltd., etc.; was Pres.: F.I.C.C. & I., N. Delhi; Indian Chamber of Commerce, Calcutta; Indian Sugar Mills Assn.; Indian Council of Arbitration, N. Delhi; Exec. Cttee. Mem.: Indian National Cttee., Intl. Chamber of Commerce, N. Delhi; Mem.: Indo-Japanese Business Co-opn. Cttee., N. Delhi; Local Advisory Cttee. (Calcutta), Indl. Fin. Corpn. of India; Advisory Cttee., Faculty of Commerce, Banaras Hindu Univ.; Dev. Council, Inorganic Chemical Inds.; Governing Body, Economic & Scientific Res. Foundn.; Chmn., Finance Cttee., Indian Red Cross Socy., W. Bengal; Rotarian; Pres. Anamika Kala Sangam, etc.; Visited several countries as member and leader of indl. and trade delegations. *Address : Off* 16A, Brabourne Rd., Calcutta 700001. *Res. :* 23, Old Ballygunge Rd., Calcutta 700019.

KANTAWALA, Ramanlal Maneklal, M.A., LL.B. Chief Justice, High Court, Bombay, since Oct. '72. *b.* Oct. 6, 1916; became Duke of Edinburgh Fellow of Bombay Univ. and won Dastur prize, Mugaseth prize and Dr. R. P. Paranjpe prize; Dakshina Fellow of Elphinstone Coll., 1938-40; M.A., 1940; LL.B., 1941. Judge, Bombay High Court, Feb. 1962 — Oct. 1972. *Address :* Chief Justice House, 14, Harkness Rd., Malabar Hill, Bombay 400006.

KAPOOR, Ranbir Raj, Producer, Dir., Actor and Editor. *b.* Dec. 14, 1924; Mem.: Jury on Intnl. Film Festivals, Berlin, Karlovy Vary, Moscow, 1966–69; Chmn. of the Jury, 4th Intnl. Film Festival, New Delhi, Dec. 1960; won the Grand Prix at the Intnl. Film Festival, Karlovy Vary, Czechoslovakia, for his film *Jagte Raho*, 1958. *Address :* Devnar Cottage, Devnar Farm, Trombay, Rd., Chembur, Bombay 400071.

KAPUR, Malik Jeevan Lal, B.A. (Pb.), M.A., LL.B. (Cantab.); Barrister-at-Law (Inner Temple), Chmn., Delimitation Commission of India, since 1973. *b.* Dec. 13, 1897. Advocate, Lahore High Court, 1922-47; Judge, East Punjab & Punjab High Court, Simla & Chandigarh, 1949-57; Judge, Supreme Court of India, 1957-62; Chmn.: Law Commn. of India, 1962-68; Delimitation Commn. of India, 1963-66; Minorities Commn., 1965-66; M. Gandhi Murder Inquiry, 1966-69; Inquiry Commn. into Bharat Sevak Samaj, 1969-73. *Address :* 12, Ashoka Rd., New Delhi 110001.

KARAN SINGH, M.A., Ph.D., Minister for Health & Family Plng., Govt. of India since Nov. 11, 1973. *b.* March 9, 1931. Appointed Regent, J & K, 1949;

elected Sardar-i-Riyasat (Head of State) by J & K Leg. Assembly, 1952 ; re-elected, 1957 and 1962 ; Governor, J & K State, April '65–March '67 ; elected to the Lok Sabha from Udhampur Constituency, 1967 ; Min. of Tourism and Civil Aviation, Govt. of India, Mar. 1967–Nov. 1973 ; Secy., Jawaharlal Nehru Memorial Fund, 1966 ; Chmn., Indian Board for Wild Life and Project Tiger ; Convener, National Cttee. for the Sri Aurobindo Centenary ; Honorary Major-General, Indian Army *Address :* 'Mansarovar', 3, Naya Marg, Chanakyapuri, New Delhi 110021.

KARAN SINGH, Lt. Gen. Khem, Maha Vir Chakra (1965) ; Padma Bhushan (1971) ; G.O.C.-in-C., Central Command, since Nov. 11, 1973. *b.* Mar. 3, 1919. Commissioned in Armoured Corps, Sept. 1941 ; Commandant, 16 Light Cavalry ; Instructor, Infantry School, Mhow ; General Staff Officer, 1 Armoured Divn. ; promoted to rank of Brigadier, Mar. 1962 ; Brigadier General Staff IV Corps 1962-64 ; Commander 1 Armoured Brigade 1964-66 ; G.O.C., 39 Infantry Divn., in rank of Major-General, 1966-68 ; Chief of Staff, Western Command ; Dir., Military Operations, Army Hqrs., 1969-71 ; promoted to Lt.-General, Aug. 25, 1971 & took command of I Corps. *Address :* Central Command Hqrs., Lucknow 226002.

KARANJIA, Burjor Khurshedji, B.A. (Hons.) (1939), I.C.S. (1943), Editor, *Filmfare,* since 1961 and Chairman, Film Finance Corporation, since 1969. *b.* Dec. 21, 1919. Publicity Manager, Godrej, 1953–61. *Address :* Quetta Terrace, Chowpatty, Bombay 400007.

KARANJIA, Russy K., B.A. (Hons.), Publisher & Journalist, Editor-in-Chief, *Blitz News Magazine. b.* Sept. 15, 1912. Started *Blitz* in Feb. 1941 ; Editor & Dir., *Blitz* Publications. *Address :* Framroz Court, N. Subash Rd., Bombay 400002.

KARUNANIDHI, M., Chief Minister, Tamil Nadu, since Feb. 1969. *b.* June 3, 1924, at Thirukkuvalai, Thanjavur Dist. ; founded with Arignar C. N. Annadurai and others, the Dravida Munnetra Kazhagam, 1949 ; became its Treasurer, 1960 ; Founder Editor, *Murasoli* daily, *Mutharam* bi-monthly and *Maravan Madal* Weekly — all in Tamil ; a good orator, poet and play-wright ; widely known as Kalaignar ; M.L.A., Tamil Nadu since 1957 ; Dy. Leader of Opp. 1962–67 ; Min, for P.W.D. 1967–69 ; elected leader, D.M.K. Leg. Party, Feb, 9, 1969 ; elected Pres., D.M.K. Party, 1969 ; Distinguished Service citation honour as leader of Tamil Culture by World Assn. of Poetry Society, 1970 ; Doctorate by Annamalai Univ., 1971 ; Recipient of the distinguished title *Tamizha Vell,* 1971. *Address :* 7-A, South Gopalapuram, Fourth St., Madras 600006.

KAUL, Triloki Nath, B.A. (Hons.) (Punjab), LL.B. (Alld.), LL.M. (London), Fellow, Royal Soc. of Arts, London (1963), Hony. Fellow, Kings Coll., London Univ., I.C.S., Ambassador to U.S.A., since May 16, 1973. *b.* Feb. 8, 1913. Passed I.C.S., 1936 ; Secy., Indian Council of Agril. Research, Govt. of India, 1945-47 ; First Secy., Indian Embassy : Moscow, 1947-49 ; Washington, 1949-50 ; Dy. Secy.-Genl., Indian Delegation to U.N., 1947 ; Counsellor & later Min., Indian Embassy, Peking, 1950-53 ; Jt. Secy., Min. of Ext. Affairs, Govt. of India, 1953-56 ; Chmn., Intnl. Commn., and leader, Indian delegation, Viet Nam, 1957-58 ; Amb. to Iran, 1958-60 ; Dy. and Ag. High Commr., London, 1960-62 ; Amb. to U.S.S.R. and Mongolia, 1962–66 ; Secy., Ext. Affairs Min., 1966–68 ; Foreign Secy. Govt. of India, 1968–72. *Address :* C/o Ministry of External Affairs, New Delhi.

KAULA, Prithvi Nath, M.A. (Pb.), B.Lib. Sci. (Delhi), Dip. L.Sc.(B.H.U.), Prof. of Library Sci., Banaras Hindu Univ. ; Editor, Granthalaya Vijnana, since 1971 ; Expert Mem., UNESCO Advy. Cttee., Comparability & Higher Educ. Studies in Library Sce. since 1973 ; Chmn. ; Nat. Council of Indian Library Assns., since 1974. *b.* Mar. 13, 1924. Mg. Editor, *Abgila* (I.L.A.), 1950-53 ; Rapporteur, Indian Wkg. Party, Intnl. Bibliographical Survey, 1949–51 ; Editor, *Sharda.* 1952–55 ; Mem., Exec. Cttee., Govt. of India Libraries Assn., 1953–57 ; V. Pres. 1958–60 ; Founder-Gen. Secy., Delhi Library Assn., 1953–55, 1958–60 ; V. Pres., 1956–58 ; Founder Editor, Harold of Library Sce., 1962 ; Dir., All India Seminar on Edn. for Librarianship '65 : Dir., UNESCO Library Trg. Programme, Havana, '67 ; Visiting Prof., American Library Schools, 1968 ; Chmn., Council of Literacy & Adult Edn., '69 ; Hebru Univ., Jerusalem, 1971 ; Founder Gen. Secy., Indian Assn. of Teachers of Library Sci., 1968–73 ; its Pres., '73 ; delivered lectures in GDR, Hungary, USSR and Yugoslavia, 1974. *Address :* C1, Banaras Hindu Univ., Varanasi 221005.

KERKAR, Ajit Baburao, Hotelier and Industrialist. *b.* June 12, 1932. Mg. Dir. & Pres., Indian Hotels Co. Ltd. ; Dir. : Tata Industries Pvt. Ltd., Devpt. Corpn. of Konkan Ltd. ; Oriental Hotels Ltd. ; Indian Resort Hotels Ltd. ; Covelong Beach (Hotels) Ltd. ; Pres. : Hotel & Restaurant Assocn. (W. India); Vice-Pres., Fedn. of Hotel & Restaurant Assen. of India ; Allied Chmn. : American Socy. of Travel Agents Inc. (Chapter V); Board of Governors, Instt. of Catering Technology and Applied Nutrition, Bombay ; Cttee. Mem., Indian Merchants' Chamber, Travel Agents' Assocn. of India, Pacific Area Travel Assocn. (India Chapter); Mem. : Tourist Devpt. Council ; Boothalingam Cttee. for examining and recommending incentives to the hotel industry ; Regnl. Tourist Cttee. (W. India). *Address :* Taj Mahal Hotel, Apollo Bunder, Bombay 400039.

KHADILKAR, R. K., B.A., LL.B., Minister of Supply & Rehabilitation, since Nov. 9, 1973. *b.* Dec. 15, 1905; Mem. : Poona Univ. Court ; Indian Nat. Cong., 1930-48 ; M.P.C.C. ; Founder-Mem., Congress Socialist Party, 1934 ; Mg. Editor, *Lokshakti,* Congress Daily, 1939-40 ; left Congress and organised All India Peasants and Workers Party, 1948 ; its Gen. Secy., 1953 ; rejoined Congress, 1962 ; Mem., Lok Sabha, since 1957 ; Mem. and Chmn., P.A.C., Lok Sabha ; Dy. Speaker, Lok Sabha, 1967-69 ; Min. of State in the Min. of Fin., 1969-70 ; Min. of Supply, Govt. of India, June 1970–March 1971 ; Min. of Labour & Rehabilitation, Govt. of India, Mar. 1971–Feb. 4, 1973 ; Min. of Health & Fly. Plng. ; Govt. of India, Feb.–Nov. 1973. *Address :* 'Pushpak', Laxmi Rd., Pune 411030 ; 1, Tughlak Rd., New Delhi 110011.

KHAITAN, Matadin, Businessman. *b.* May 1913. Life-member, Indian Red Cross Socy. ; Mem. : Indian Sugarcane Devpt. Council, Govt. of India, New Delhi ; Dir. : Matadin Khaitan & Co., (P) Ltd. ; Vegetable Products Ltd. ; Tulsipur Sugar Co. Ltd. ; Trustee : Matadin Khaitan Charitable Trust ; Gyan Bharati. *Address :* Khaitan House, 27, Vivekanand Rd., Calcutta 700007.

KHAN, Shah Nawaz, Minister of State for Agriculture and Irrigation, Govt. of India, since Oct. 11, 1974. *b.* Jan. 24, 1914. Commissioned into the Indian Army, 1936 ; joined the Indian National Army under Netaji Subash Bose ; G.O.C., Congress Seva Dal, 1946 ; M.P., 1952–67 ; Chmn., National Seeds Corpn. Ltd., June 1968–Jan. 1971 ; concurrently Chmn., F.C.I., Dec. 1968– Jan. 1971 ; Min. of State for Steel & Mines, Govt. of

India, May 1971–Feb. 4, 1973 ; Min. of Supply, Govt. of India, Feb.–Nov. 1973 ; Min. of State for Petroleum & Chemicals, Nov. 1973–Oct. 1974. *Address :* 14, Akbar Rd., New Delhi 110011.

KHAN, Ustad Bismillah, Padma Shri (1961), Padma Bhushan (1968), Musician. *b.* March 21, 1916 at Dumraon, Shahabad Dist., Bihar. Gave his first public performance at the age of 14 at the All India Music Conference at Allahabad, 1930 ; Academy Award for Hindustani Instrumental Music, 1956 ; participated in the Edinburgh International and the Commonwealth Arts Festival, London & Liverpool, 1965 ; gave musical concerts at the Expo 1967 at Montreal, Canada, including the Lincoln Centre, New York, U.S.S.R., and all the countries of the Middle East, 1967 ; participated : Intnl. Music Council, Cannes, Jan. 1970 ; Expo 1970 in Japan ; gave musical concerts in South America, West Indies, Gyuana, Venezuela, Surinam, Trinidad & Tobago, Mexico, Syria, Belgium, France etc. places during 1972 and 1973. *Address :* C. K. 46/62, Sarai Harhar, Banaras.

KHANNA, Mr. Justice Hans Raj, B.A. (1932), LL.B. (1934), Judge, Supreme Court of India, since Sept. 1971. *b.* July 3, 1912 ; was Dist. & Sessions Judge, Ferozepore, Ambala and Delhi ; Judge, Punjab High Court and Delhi High Court ; Chief Justice, Delhi High Court, 1969–71 ; Commission of Inquiry on police firing at Kalka Rly. Stn. in 1956 and into the charges against Orissa Ministers, 1968-69 ; tried Ram Krishna Dalmia & others as Spl. Judge. *Address :* 6, Motilal Nehru Marg, New Delhi 110011.

KHATAU,. Dharamsey Mulraj, B.Sc. (Hons.), Industrialist & Businessman ; Chmn., Khatau Mills, Cable Corpn. of India Ltd. *b.* Aug. 26, 1901. Dir., Scindia Steam Nav. Co. Ltd., A.C.C., Wimco Ltd., Colour-Chem Ltd., Siemens India Ltd., Atul Products Ltd., etc. ; has contributed greatly in the development of shipping, cement, engineering & cotton textile inds. ; Pres., Bharatiya Vidya Bhavan, Bombay. *Address :* Laxmi Bldg., 6, Shoorji Vallabhdas Mrg., Bombay 400038.

KIDWAI, Akhlaq-ur-Rahman, Dr., B.A. (Jamia), M.S. (Illinois), Ph.D. (Cornell), Chmn., Union Public Service Commn., Govt. of India, since Feb. 5, 1973. *b.* July 1, 1920. Fellow, Chemical Socy., London ; Indian Chemical Socy., Prof. & Head, Chemistry Dept. and Dean, Faculty of Sce., Aligarh Univ. 1951–1967 ; Mem. : Cost and National Cttee. on Sce. & Tech. 1968–73 ; Central Adv. Bd. of Educ., and U.P.S.C. Sept. 1967–Feb. 1973. *Address : Off. :* Dholpur House, Shahjahan Rd., New Delhi ; *Res. :* 8, Safdarjang Lane, New Delhi 110011.

KILACHAND, Ambalal, Vice Chairman, Polychem Ltd. *b.* July 23, 1912. Dir., Kilachand Devchand & Co. Pvt. Ltd., Kesar Sugar Works Ltd., Indian Dye-Stuff Industries Ltd., Polychem Ltd., Bombay Suburban Electric Supply Ltd., Aero Auto Ltd., Kamal Shipping Co. Ltd., Citric India Ltd., Eastern Bunkerers Ltd. ; former Trustee, B.P.T ; Mem. : Bombay Customs Adv. Cttee. ; Exec. Council, Indo American Chamber of Commerce, Bombay ; Cttee. of Indian Merchants Chamber ; Pres., Indian Merchants' Chamber, 1953–54 ; Mem., Import Adv. Council, Govt. of India till 1956. Pres. : All India Plastic Manufrs. Assn., 1963 ; Rotary Club of Bombay 1965–66. *Address : Office :* 7, Jamshedji Tata Rd., Churchgate Reclamation, Bombay 400020 ; *Res. :* 95, Laxmibai Jagmohandas Marg, Bombay 400006.

KILACHAND, Arvind Nandlal, B.Sc. (Chem. & Phy.), Businessman ; Mg. Director, Dodsal Pvt. Ltd. & Indmag Pvt. Ltd. *b.* July 24, 1924. Chmn., Chemicoat Ltd., Trade-Wings Ltd., Thacker & Co. Ltd. ; Dir. of numerous companies ; received National Award for Outstanding Export Performance for 1969–70 ; Pres. : Indo-German Chamber of Commerce, 1967–68 & 1973–74 ; Rotary Club of Bombay, 1974–75 ; Indian Merchants' Chamber, 1975 ; Trustee, Bombay Port Trust, 1973–75 ; Cttee. mem.: Fedn. of Indian Chambers of Comm. & Ind. ; P. & T. Advisory Council. *Address :* Mafatlal House, 1st flr., Backbay Recl., Bombay 400020.

KILACHAND, Ramdas, Businessman ; S.E.M. *b.* Sept. 18, 1909. Joined Kilachand Devchand & Co., Pvt. Ltd., 1926 ; Pres. : East India Cotton Assn. Ltd., Bombay Oilseeds & Oils Exchange Ltd ; Chmn. : Polychem Ltd. ; Distillers Trading Corpn. ; Dir. : Kesar Sugar Works, Ltd. ; Synthetics & Chemicals Ltd. ; Kilachand Devchand & Co. Pvt. Ltd., etc. ; Ex-Trustee, Bombay Port Trust ; Pres., Indian Merchants' Chamber, 1948–49 ; Mem. : Indian Oilseeds Devpt. Council; Export Promotion Council for Oilseeds, Oils, Oilcakes; Trustee : Kilachand Devchand Foundation; Kilachand Devchand Charity Trust; Kesarbai Charity Trust ; Trustee, Bombay Panjrapole ; North Guj. Educ., Socy., etc. ; elected M.L.A., Bombay, 1952. *Address : Office :* 7, Jamshedji Tata Rd., Churchgate Reclamation, Bombay 400020 ; *Res. :* 95, Laxmibai Jagmohandas Marg, Bombay 400006.

KILACHAND, Tulsidas, Business man ; Chmn., Kilachand Devchand & Co. (P.) Ltd. *b.* July 1, 1906. Has been Chmn. : Synthetics & Chemicals Ltd. ; Kesar Sugar Works Ltd. and AMCO Ltd. ; Vice-Chmn., Premier Automobiles Ltd. ; Dir. : Walchandnagar Inds. Ltd. ; Premier Construction Co. Ltd. ; Tata Chemicals Ltd. ; Intnl. Instt. of Synthetic Rubber Producers and its Far Eastern Section ; Chairman, Bank of Baroda, 1932–65 ; Leader, Govt. of India's Trade Mission to Japan, 1947 ; was Mem. : Export Adv. Council of the Govt. of India ; Plng. Commn. Adv. Board, 1950–51 ; Stg. Cttee. of the Export Promotion Adv. Council & other bodies ; Pres., F.I.C.C. & I., 1950–51 ; Chairman : Bagalkot Cement Co. Ltd., 1949–67 ; Indian Bank's Assn., 1961–65 ; was Governor, Adm. Staff Coll. of India, Hyderabad ; elected M.P., 1952. *Address : Office :* 7, Jamshedji Tata Rd., Churchgate Reclamation, Bombay 400020 ; *Residence :* Laxmibai Jagmohandas Marg, Bombay 400006.

KINECKI, H. E. Mr. Wiktor, M.A. (Pol. Sci.), Amb. of Polish People's Republic to India, since Oct. 12, '71 and concurrently Amb. to Sri Lanka, Nepal and Singapore. *b.* Dec. 31, 1929. Head, Internl. Relations Secn., Polish Youth Union ; Mem., Sectt. of the World Fedn. of Democratic Youth, Budapest ; Chief, Polish Pathfinders Union, 1963-69 ; Dy. Chief, Divn. for External Relations of the Central Ctee. of Polish United Workers Party. *Address :* 1, Tilak Mrg., New Delhi 110001.

KIRLOSKAR, Shantanu Laxman, B.Sc., Padma Bhushan (1965), "Sir Walter Puckey Prize" (1968), awarded 'Karma Virottama' by Engg. Assn. of India, Calcutta (1972), Life Mem., Instt. of Engineers (India), Industrialist ; Chmn. and Mg. Dir., Kirloskar Oil Engines Ltd., Pune. *b.* May 28, 1903. Pres., F.I.C.C. & I., 1965–66 ; First Pres., Indo-American Chamber of Commerce ; Chmn. : Bd. of Dirs., Kirloskar Pneumatic Ltd., Pune ; Kirloskar Consultants Ltd., Pune ; Kirloskar Cummins Ltd., Pune ; Kirloskar Bros. Ltd. ; Chmn., Indian Instt. of Management, Ahmedabad, 1972–74 ; Swastik Rubber Products Ltd., Pune, etc. ; Mem., Mahratta Chamber of Commerce Pune ; Dir. of several other Companies. *Address : Office :* Kirloskar Oil Engines Ltd., Corporate Office, 11, Koregaon Rd., Pune 411001. *Residence :* "Lakaki", Shivajinagar, Pune 411016.

KOHLI, Admiral Sourendra Nath, B.A. (Hons.), Padma Bhushan (1972); Chief of Naval Staff, since March 1, 1973. *b.* June 21, 1916; joined Navy, 1936; received initial training in U.K. and specialised in Signal Communication; saw action in World War II in Persian Gulf and the Far Eastern Theatre; commissioned and Commanded INS "RANA" 1949–50; Director of Naval Plans, Naval Hqrs., 1950–52 and 1957–58; Commanding Officer, INS "GODAVARI" and Captain (Destroyers), 22 Destroyer Squadron, 1953–55; Naval Adviser to High Commr. of India in U.K., 1955–57; Commanded INS "MYSORE", 1958–60; did the course at National Defence College, 1960–61; Commodore Supdt., Naval Dockyard, 1961–63; served as Principal Staff Officer in Naval Hq., first as Chief of Material, 1963–64 and then as Vice-Chief of Naval Staff, 1964–67; promoted to Flag rank, Dec. 1965; commanded Indian Fleet, 1967–69; awarded Param Vishisht Seva Medal, 1968; Commandant, National Defence College, 1969–71; FOC-in-C, Western Naval Command Feb. 1971–Feb., 1973. *Address:* Naval Hqrs., N. Delhi 110011.

KOTHARI, Dayanand Chandulal, M.A. (Madras), Industrialist, Share & Stockbroker. *b.* Feb. 28, 1914. Chmn. & Mg. Dir.: Kothari (Madras) Ltd., Investment Trust of India Ltd., Kothari Sugars & Chemical Ltd., etc.; Dir.; Brooke Bond (I) Ltd., South India Viscose Ltd.; Nilhat Shipping Co. Ltd.; Vijayanagar Textiles Ltd.; Kothari (Madras) Intl. Ltd., Shriram Bearings Ltd.; English Electric Co. of India Ltd.; was Dir., Central Board, Reserve Bank of India, etc.; Vice-Chmn.: Confederation of Asian Chambers of Com. and Industry; was Pres.: F.I.C.C.I.; Indian Sugar Mills Assn., Fertiliser Assn. of India, Delhi; Mem.: Court of Governors, Administrative Staff Coll. of India etc.; was Chmn.: Southern India Mill Owners' Assn., S. Indian Sugar Mills Assn., Yarn Cttee. of Cotton Textiles Export Promotion Council; was Pres.: All India Orgn. of Employers; Hindustan Chamber of Commerce etc. *Address: Office:* 'Kothari' Buildings, 20, Nungambakkam High Rd., Madras 600034. *Res.:* Kothari House, 15/1, Kothari Rd., Nungambakkam, Madras 600034.

KOTHARI, Harshad Chandulal, Industrialist; Share & Stock Exchange Broker; *b.* April 18, 1918. Mg. Dir., Kothari (Madras) Ltd. Was Pres.: United Planters' Assn. of S. India, Hindustan Chamber of Commerce, etc., Dir.: Kothari Sugars & Chemicals Ltd.; Enfield India Ltd., and several others; was Sheriff of Madras; was Chmn., Hindustan Photo Films Manufg. Co. Ltd.; Cttee. Mem., Indian Sugar Mills Assn., & S. Indian Sugar Mills Assn. *Address: Res.:* Kothari Bagh, N.H. Rd., Nungambakkam, Madras 600034.

KOTVAL, Sohrab Peshotan, B.A., LL.B., Lokayukta, Maharashtra, since Oct. 25, 1972. *b.* Sept. 27, 1910. Lecturer in Jurisp. and Constl. Law, Univ. Coll. of Law, Nagpur, 1939-46; Mem., Court of Nagpur Univ., since 1935; Academic Council, Nagpur Univ., 1942-64; Dean, Faculty of Law & Mem., Exec. Council, Nagpur Univ., 1956-64; Vice-Chancellor, Nagpur Univ., 1962-64; Judge, M.P. High Court, 1955-56; Judge, Bombay High Court, 1956-66; Chief Justice, July 1966 — Sept. 1972; Ag. Governor of Maharashtra, Nov. 11, 1969 — Feb. 25, 1970. *Address:* "Shivneri", Powai Rd., Off Mt. Pleasant Road, Malabar Hill, Bombay 400006.

KRIPALANI, Acharya J. B., M.A. (History and Economics), M.P.; Dir., Shri Gandhi Ashram, Village and Khadi Orgn., Delhi. *b.* 1888. General Secy. of Indian National Congress, 1934–46; Pres., Indian National Congress, Oct. 1946; resigned Nov. 1947; joined Mahatma Gandhi in Champaran Satyagraha, 1917; Private Secy. to Pandit Madan Mohan Malaviya, 1918; organised Gandhi Ashram; started Khadi and Village work, 1920, through the Gandhi Ashram, Banaras; Mem., Constituent Assembly of India, 1946–51; formed the Congress Democratic Front, 1951; resigned from Congress and formed Kisan Mazdoor Praja Party, 1951; merged K.M.P.P. with the Socialist Party, Oct. 1951; was Chairman, P.S.P. till Dec. 1954; elected to Lok Sabha, 1952, 1957, 1963 & 1967. *Address:* Shri Gandhi Ashram, Lucknow.

KRISHNA IYER, Mr. Justice V. R., Judge, Supreme Court of India, since '73. *b.* Nov. 1915. M.L.A., Madras, '52; Min. for Law, Home, Irrigation & Power, Kerala State, 1957-59; Judge, Kerala High Court, 1968-71; Mem.: Law Commission, 1971–73; Indian Council of Soc. Sci. Res.; Vice-Pres., Indian Socy. of Intnl. Law; Indian Assn. of Lawyers; Founder-Dir., Kerala Law Academy; Pres., Intnl. Centre for Kathakali, Delhi; Mem.: Law Faculty of the Kerala, Cochin & Aligarh Muslim Univs.; Exec. Cttee. of Central Animal Welfare Board; Bharatiya Vidya Bhavan (Delhi Branch), Kerala History Assn., etc.; was associated with Indo-Soviet Cultural Socy., Indo-G.D.R. Friendship Socy., Intnl. Democratic Lawyers' Assn. & several cultl. organisations. *Address:* Supreme Court of India, Tilak Marg, New Delhi 110001.

KRISHNAN, Vice-Admiral Nilkanta, Padma Bhushan (1972), Chairman & Mg. Dir., Cochin Shipyard Ltd., since March 1973. *b.* June 8, 1919; Jt. Services Staff Coll., U.K. (1951); Imperial Defence Coll., London (1965). Joined the "DUFFERIN", 1935, Indian Navy, 1938; saw active service during World War II; awarded Distinguished Service Cross; was in command of several types of warships including INS "VIKRANT" for two years; Dir. of Naval Plans 1948–50; was also Dy. Secy. (Military) to the Union Cabinet and Naval Adv. to the Indian High Commr. in U. K.; Chief of Naval Aviation and Asstt. Chief of the Naval Staff; Vice-Chief of the Naval Staff, 1967–70; Flag Officer Commanding-in-Chief, Western Naval Command; FOC-in-C, Eastern Naval Command, 1971-73; recipient of eighteen medals and the highest peacetime award, PVSM. *Address:* Cochin Shipyard Ltd., Cochin 682015.

KRISHNAN, Ramanathan, M.A., Padma Bhushan (1967), Helms World Trophy for the Foremost Sportsman from Asia of 1966, a leading tennis player; Gen. Mgr., Madras Cylinder Gas Co. *b.* April 11, 1937. National Lawn Tennis Champion of India 1954, 1957, 1959, 1960, 1961, 1963, 1964 & 1965; Wimbledon Junior Lawn Tennis Champion, 1954; Won the London Grass Court Championship, & the American Hard Court Championship, 1959; won the Lawn Tennis Championship of Asia, 1959, 1963, 1964 & 1965; was the first Indian to enter semi-finals at Wimbledon, 1960 & 1961; has played for India in the Davis Cup since 1953; ranked as India's No. 1, 1953–66; led India to Challenge Round, 1966. *Address:* 'Ram Nivas,' 37, Thiruvenkatam St., Raja Annamalaipuram, Madras 600028.

KULKARNI, Vice-Admiral Kamalakar Laxman, Param Vishisht Seva Medal (1973), Flag Officer Commanding-in-Chief, Eastern Naval Command, since Mar. 14, '73. *b.* Oct. 19, 1921. Commissioned in the Navy, May 1, '42; was Commanding Officer, INS "TIR", "KRISHNA", "RAJPUT", "RANA" & "TRISHUL"; Officer-in-Charge, Navigation & Direction School, Cochin; Naval Officer-in-Charge, Goa; Asstt. Chief of Naval Staff in the rank of Commodore, Dec. '67; promoted to Flag

Rank & became Chief of Material, Naval Hqrs., Dec. '68. *Address :* Eastern Naval Command, Naval Base, Vishakapatnam 530014.

KULKARNI, S. R., Pres., All-India Port & Dock Workers' Federation. *b.* March 25, 1928. Has been connected with the dockers' movement for the last 30 years ; is associated with a number of other trade union orgns. ; Trustee, Bombay Port Trust, since 1958. *Address :* Block No. 58, Chanchal Smriti, Katrak Rd., Wadala, Bombay 400031.

KUMAR, Naresh, B.Com., Arjuna Award (1962), a leading tennis player, tennis commentator, sports writer & Businessman. *b.* Dec. 22, 1928. National Junior Tennis Champion, 1945, 1946 ; ranked India's No. 1, 1951–52 ; Mem. of Indian Davis Cup Team, 1952-53-54-55-56-57-58-59-60-61 ; Captain, Indian Davis Cup Team, 1955-56-57-58-59-60 ; winner of several Championships ; ranked India's No. 2, 1955–56, 1958–59 ; reached mixed doubles quarter-finals at Wimbledon with Miss E. Buding (Germany), 1957 ; reached men's doubles quarter-finals with R. Khrishnan, Wimbledon, 1958 ; won doubles championships of Moscow with A. Huber (Austria) 1957 ; Asian Doubles Champion with Krishnan, 1962–63 & 1963–64. *Address :* 15, Shakespeare Sarani, Calcutta 700016.

KUMARAMANGALAM, Jayant Gopal, B.A. (Oxford), Chmn. & Mg. Dir., National Coal Devpt. Corpn. Ltd., Ranchi, since '71 ; Custodian-General, Coal Mines Authority, Calcutta, since Jan. 31, '73. & Chmn., Coal Mines Authority Ltd., since July 7, '73. *b.* May 11, 1915. Dy. Secy., Govt. of India, 1957-59 ; Dy. Gen. Manager, N.C.D.C. Ltd., 1959-65 ; Gen. Manager, Bailadila Iron Ore Project, 1965-67 ; Mg. Dir., Neyveli Lignite Corpn., 1967-70 ; participated in Indian American Trg. & Observation Programmes of US-AID & trg. in coal mines and mining machinery in the U.S., '61. *Address :* 15, Park St., Calcutta 700016.

KUNZRU, Pandit Hriday Nath, B.A., B.Sc., LL.D. (Hon.), Pres., Servants of India Socy., since 1936. *b.* 1887. Joined the Servants of India Socy., 1909 ; M.L.C., U.P., 1921-23 ; Mem. : Indian Leg. Assembly, 1927-30 ; Pres. : East African Nat. Cong. 1929 ; National Liberal Fedn., 1934 ; Mem. : Indian Const. Assembly and Prov. Parlt. 1946–52 ; Chmn. : N.C.C. Commn., 1946–47 ; States Reorg. Commn. ; Rajya Sabha, 1952–62 ; U.G.C., 1953–66 ; B.H.U., 1958–65 & 1968–71 ; Council of State, 1937–46 ; Leader, Indian Delegation to : South Africa, 1950 ; Inter-Parly. Union 1956–61 ; Pres. : Indian Council of World Affairs, since 1948 ; Indian School of Intnl. Studies, 1955–70 ; Anjuman-e-Taraquie-e-Urdu, Hind 1962–72 ; Gen. Secy., All India Seva Samiti ; National Commr., Bharat Scouts and Guides, 1950–57 and 1961–63 ; Chmn. : Rly. Accidents Enq. Commn., 1961–63 ; Bharatiya Adimjati Sevak Sangh ; Indian Council for Cultural Relations ; Chmn., Cttee. on Rlys. (Adm. Reform Commn.), 1967–69 ; Pres., Nat. Assn. for the Blind, Delhi Branch ; Trustee, India Intl. Centre, since 1960 ; Mem., Gov. Council, Ind. Law Instt. *Address :* P. D. Tandon Rd., Allahabad ; Sapru House, Barakhamba Rd., New Delhi 110001.

KURIEN, Verghese, B.Sc., B.E. (Hons.) (Mech.), M.Sc. (Mech. Engg.), F.I.E. (India), D.Sc., LL.D., Padmashri (1965), Padmabhusan (1966) ; Chmn. : National Dairy Devpt. Board, Anand ; Indian Dairy Corpn., Vadodara & Chmn. & Mg. Dir., Gujarat Co-operative Milk Mktg. Fedn. Ltd , Anand. *b.* Nov. 26, 1921. Dir. : Reserve Bank of India (Central Board), Bombay ; Chmn., XIX Intnl. Dairy Cong., 1974 ; Mem. : Cttee. on Cow Protection ; Intnl. Dairy Fedn., Brussels ; Bd. of Governors of Indian Instt. of Management, Ahmedabad, since Oct. 7, 1974 ; Board of Management, Gujarat Agri. Univ. ; Dir., Gujarat Dairy Devpt. Corpn. ; Kaira Dist. Co-optive. Milk Producers' Union Ltd. ; Fellow, Insttn. of Engineers (India) ; Hony. Mem., Assocn. of Food Technologists (India) ; Life mem., Indian Dairy Sci. Assn. ; awarded Ramon Magsaysay Award for Comm. Leadership '63 ; Hony Degree of D.Sc. (Michigan State Univ.) '65 ; Hony Degree of Doctor of Laws by Glasgow Univ. '74. *Address :* National Dairy Devpt. Board, Anand 388001.

KURUP, G. Sankara, (Pen name 'G'), Jnanpith Award for his book *Odakuzhal* (1965), Padma Bhushan (1968), M.P. (Rajya Sabha) 1968–72 ; Malayalam Writer ; Hon. Mem., P.E.N. (India) ; Fellow, Kerala Sahitya Akademi. *b.* June 1901. Kerala Sahitya Akademi Award, 1961 ; Central Sahitya Akademi Award for the collection of poems 'Viswadarsanam' in 1963 ; Soviet Land Nehru Award, 1967. *Address :* Bhadralayam, Ernakulam, Cochin 682011.

KURUVILA, Rear Admiral Elanjikal Chandy, AVSM., PVSM., Chmn. & Mg. Dir., Mazagon Dock Ltd., Bombay & Goa Shipyard Ltd., Vasco-da-Gama, since Oct. 1, '73. *b.* Oct. 4, 1922. Commissioned in the Navy, Oct. '42 ; Staff Course at the Defence Services Staff Coll., Wellington, Nilgiris, '53 ; Executive Officer, INS DELHI, '59 ; commanded INS GARUDA, '61 ; INS TRISHUL, '63 ; INS CIRCARS, '65 ; INS VIKRANT, '67 ; Dir. of Personnel, Naval Hqrs., in the rank of Commodore, '69 ; Flag Officer Commanding, Western Fleet, in the rank of Rear Admiral, Nov. '70 ; Flag Officer Commanding, Southern Naval Area, Apr.-Sept. '73 ; awarded Ati Vishisht Seva Medal & Param Vishisht Seva Medal. *Address :* Mazagon Dock Ltd., Dockyard Rd., Bombay 400010.

KUSHE, Madhusudan Dattaram, Mg. Dir., P.V.S. Beedies P. Ltd., Mangalore. *b.* Nov. 16, 1935. Dir., P.V.S. Beedies Pvt. Ltd., 1955-61 ; Pres., All India Beedi Ind. Fedn. ; Chmn., Sub-Group Cttee. on "Consumer Industries" of the National Cttee. on Science & Tech., New Delhi '72 ; Pres. elect of Rotary Club of Mangalore & office-bearer of many cultl., ednl. & religious orgns. Had extensive export promotion tours to more than 25 foreign countries. *Address :* P. Box No. 707, Mangalore 575003.

KUSHWAHA, Ram Singh, M.Sc. (Maths.), D. Phil. (Maths.), Ph.D. (Astronomy), (Princeton) ; F.N.A., F.N.A. Sc. ; Higgins Fellow, Princeton Univ. ; NRC Post-Doctoral Fellow, Canada ; Fellow, Indian Nat. Sci. Academy (1973), Scientist ; *b.* Mar. 1, 1922. Lecturer in Maths., Allahabad Univ., 1947-59 ; Reader in Astrophysics, Delhi Univ., 1959-63 ; Prof. & Sr. Prof. of Maths., Jodhpur Univ., since '63. *Address :* Deptt. of Maths., Univ. of Jodhpur, Jodhpur 342001.

LAKDAWALA, Dr. Dhansukhlal Tulsidas, M.A., LL.B., Ph.D., Chairman, U.P. Taxation Enquiry Cttee., Dir., Deptt. of Economics, Univ, of Bombay ; Expert in Public Finance and Intnl. Economics. *b.* Oct. 4, 1916 ; was Dir., Sardar Patel Instt. of Eco. & Soc. Research, Ahmedabad (1970–71) ; Mem., 5th Finance Commn. *Address :* Deptt. of Economics, Univ. of Bombay, Bombay 400029.

LAL, Bipen Behari, M.Sc., I.C.S., Chief Executive of Sikkim, since Aug. 1974. *b.* Jan. 30, 1917 ; Held various positions in U.P., 1944–54 ; Secy., Finance Dept., U.P., 1954–59 ; Secy., Irrigation & Power, U.P., and Chmn., U.P. State Electricity Board 1959–65 ; Fellow, Harvard Univ. (USA), 1965–66; Addl. Secy., Min. of Petroleum & Chemicals, Govt. of India, Jan.–Mar. 1967; Chief Secy., U.P., Mar. 1967–Nov. 1969; Addl. Secy., Min. of Finance, Dec. 1969–1970; Secy. to the Govt. of India, Dept. of Personnel, Dec. 1970–April 1971, Secy.: Min. of Ind. Devpt., April 1971–Jan. 1973; Min. of Com., Jan. 1973–May 1973; Adv. to Governor, U.P., May 1973–Sept. 1973; Secy., Plng. Commn., Oct. 1973–Aug. 1974. *Address :* Mintogang, Gangtok (Sikkim) 737101.

LAL, Air Chief Marshal P. C., D.F.C., Padma Bhushan; Padma Vibhushan (1972), Chmn. & Mg. Dir., Indian Airlines, since Aug. 1, 1973. *b.* Dec. 6, 1916, at Ludhiana; obtained amateur pilot's licence, 1934. Commissioned in the I.A.F., Nov. 1939; assumed command of No. 7 squadron, June 1944; mentioned in despatches and awarded D.F.C. for his part in the Burma operations, 1944 & 1945; held several senior appts. including those of Dir. of Plns. at Air Hqrs.; Dy. Secy. (Military) to the Cabinet and A.O.C. Trg. Command; Gen. Mgr., I.A.C., 1957–62; was Air Officer incharge of Maintenance at Air Hq., A.O.C.-in-C., Western Air Command; Vice Chief of Air Staff till Sept. 1966; Mg. Dir., Hindustan Aeronautics Ltd., 1966–68; Chmn., HAL, Jan. 1969–Feb. 1971; Chief of the Air Staff, Indian Air Force, July 16, '69 to Jan. 15, 1973; Mem.: Board of Dirs., Air India; Intnl. Airport Authority of India. Chmn., Bd. of Governors, Nat. Instt. for Trng. in Indl. Engg. *Address :* Airlines House, 113, Gurudwara Rakabganj Rd., New Delhi 110001.

LALBHAI, Arvind N., B.Sc. (Bombay Univ.), Industrialist; Chmn., Asoka Mills Ltd., Vallabh Glass Ltd., Suessen Bearings, Lalbhai Exports Ltd. *b.* April 3, 1918. Dir., SLM—Maneklal, Kothari (Madras) Ltd.; Ex-Dir., SBI; Pres., Ahmedabad Millowners' Assn., 1957–58 & 1961–62; Gujarat Chamber of Commerce, 1969–70; Mem.: Indian National Cttee. of Intnl. Chamber of Commerce; Mg. Cttee. of FICCI, New Delhi. *Address :* "Shalimar", Shahibaug, Ahmedabad 380004.

LALBHAI, Kasturbhai, Padma Bhushan (1968), Industrialist and Banker; Director of 20 concerns, such as Textile, Insurance, Electricity, Steamship etc.; All India Council for Technical Educ. from 1955; Plng. Cttee., W. Region, Govt. of India from 1955; Chmn., Governing Body of Ahmedabad Educ. Socy. *b.* Dec. 19, 1894; Pres.: Ahmedabad Millowners' Assn., 1933–35; F.I.C.C.I., 1934-35; Council of Adm. of the Ahmedabad Textile Industry's Research Assn. since 1947; Chmn., West Coast Kandla Port Devpt. Cttee., since 1948; Mem.: C.S.I.R. Board and Governing Body from 1940; Senate, Gujarat Univ. from 1950; Leader and Pres., Jain Community in India; Dir., Reserve Bank of India, 1937-49 and 1957-60; Chmn.: I.I.T., 1955-65; Gujarat Flood Relief Cttee.; Governing Trustee, Kasturba Gandhi National Memorial Trust, 1957 and Gandhi Smarak Nidhi; Trustee: Jawaharlal Nehru Memorial Fund, 1964; Mem., Direct Taxes Adv. Cttee., Govt. of India, 1967. *Address :* Pankore's Naka, Ahmedabad; Shahibaug, Ahmedabad 380004.

LALCHAND HIRACHAND, B.A., Industrialist; Chmn.: Premier Automobiles Ltd.; Indian Hume Pipe Co., Ltd.; Walchandnagar Ind. Ltd., etc.; Dir.: Premier Construction Co. Ltd., Cooper Engg. Ltd., Scindia Steam Nav. Co., Polychem Ltd., etc. *b.* Oct. 24, 1904. Pres.: Indian Merchants Chamber, 1959; Maharashtra Chamber of Commerce, 1960–64; Automotive Manufrs.' Assn. of India, 1954–59; Assn. of Indian Automobile Manufrs., 1960–61; Mem.: Bombay Leg. Council, 1939; Rajya Sabha, 1952–58; was Mem.: Import Adv. Council of the Govt. of India; Pres., Swatantra Party, Bombay Region, 1968–71. *Address : Office :* Construction House, Walchand Hirachand Marg, Ballard Estate, Bombay 400038; *Residence :* Neela House, M. L. Dahanukar Marg, Bombay 400026.

LALL, Dr. Krishen Behari, I.C.S., Amb. to Belgium & Luxembourg since June 1973 and Special Envoy for Econ. Affairs to W. Europe, since May 30, 1973. *b.* 1915; Joined I.C.S., 1937; Mem., Finance Commerce Pool (1945); held important posts in Central Provinces (Food Secy.) and in the Govt. of India, Partition Sectt., Ministries of Commerce, Finance, States, Ind. Devpt. and Defence; Secy., Min. of Foreign Trade, 1966–70; Addl. Secy., Dept. of Industries, 1958–60; Spl. Secy., Min. of Finance, 1961; Secy., Delhi Emergency Cttee., 1947; Administrator, United State of Matsya, 1948–49; Chief Secy., Madhya Bharat, 1949–51; Chmn., Foreign Trade Board, 1957–60; State Trading Corpn., 1956–59; Chmn/Dir. of Public Sector Undertakings in the industrial field, 1958–60; Amb. to Belgium and for Economic Affairs to West European countries, 1962–66; Permanent Rep. to GATT and UNCTAD; Chmn., Group 77, 1964; GATT, 1966–67; Principal Consultant to ECAFE on Asian Econ. Corpn.; Leader, Indian Delegation to UNCTAD, ECAFE and Econ. Cttees. of Non-aligned Cfces.; Mem., Govg. Council, Asian Instt. of Econ. Devpt., Principal Secy., Min. of Defence, Govt. of India, 1970–73. *Address :* Embassy of India, Brussels.

LATIF, Air Marshal Idris Hasan, Param Vishisht Seva Medal (1971); Air Officer Commanding-in-Chief, Central Air Command. *b.* June 1923. Commissioned in the Air Force, 1942; Air Attache in U.S.A., 1960-65; Air Defence Commander, 1965-66; Sr. Air Staff Officer, Eastern Air Command, 1966-67; Asstt. Chief of Air Staff (Plans), 1970-73; Air Officer-in-Charge, Adm., 1974: Mem., I.A.F. Trg. Team in Indonesia, 1955-57; graduated from Defence Services Staff Coll., 1957-58 & National Defence Coll., 1967. *Address :* Central Air Command Hqrs., I.A.F., Bamrauli, Allahabad 211012.

LIMAYE, Madhu, M.P., Politician. *b.* May 1, 1922. Was associated with Indian National Congress, 1938-41; took part in freedom struggle and Goa liberation movement; Mem., Socialist Party, since '38; Secy., Asian Socialist Bureau, Rangoon, '53; Chmn., Socialist Party, '53; Mem., Lok Sabha, Dec. '64—Dec. '70 & since April '73; Chmn., S. P. Parl. Board, 1966-67; Leader, SP Group in Lok Sabha, 1967-70. *Address :* 6, Rachana, 33, Perry Cross Rd., Bandra, Bombay 400050; 12, Gurudwara Rakabganj Rd., New Delhi 110001.

MADHOK, Balraj, M.A. (His.) (1942); Politician; Author; Mem., Nat. Executive of Bharitiya Lok Dal. *b.* Feb. 25, 1920. Founder Secy., J. & K. Praja Parishad, 1947; Founder mem. and Secy., Bharatiya Jan Sangh, 1951–65; Pres.: Delhi State Jan Sangh, 1953–63; All India Jan Sangh, 1966–67; Editor, Organiser Weekly; M.P., 1961–62 & 1967–71; Mem.: Study Team on Defence, 1968–70; Cttee. on Public Undertakings, 1968–69; Cttee. on Defence; Founder Pres., National Democratic Party (Loktantric Sangh) 1973; at present Head of the Deptt. of History, D.A.V. Coll., New Delhi. *Address :* J. 394, Shankar Rd., New Delhi 110006.

MAFATLAL, Arvind Navinchandra, Industrialist; Chmn., Mafatlal Group of Companies, Bombay. *b.* Oct. 27, 1923. Dir.: Tata Iron & Steel Co. Ltd., National Organic Chemical Ind. Ltd., Bombay Burmah Trading Corpn. Ltd., Hoechst Dyes & Chemicals Ltd., Polyolefins Ltd., etc.; Chmn., Adv. Council for Industries, Govts. of Maharashtra and Gujarat, etc. *Address :* Mafatlal House, Backbay Reclamation, Bombay 400020.

MAFATLAL, Rasesh Navinchandra, B.A. (Hons.), Industrialist; Chmn. & Mg. Dir., The Standard Mills Co. Ltd. *b.* March 6, 1934. Dir.: Mafatlal Group of Companies, National Organic Chemical Ind. Ltd., Hoechst Dyes & Chemicals Ltd., Automobile Products of India Ltd., Hindustan Motors Ltd.; Indian Hotels Co. Ltd.; Statesman Ltd., Mafatlal Ltd. (London), Newbridge Industries Ltd. (Ireland), etc.; Chairman, Millowner's Assn., Bombay; Vice-Chmn.: Indian Cotton Mills Fedn.; Mem.: Cotton Textiles Export Promotion Council, Ahmedabad Education Soc. *Address:* Mafatlal House, Backbay Reclamation, Bombay 400020.

MAFATLAL, Yogindra Navinchandra, Industrialist; Chmn. & Mg. Dir., The Indian Dyestuff Industries Ltd. *b.* Jan. 22, 1925. Chmn.: Tak Machinery Ltd., Commerce (1935) Ltd., and Cellulose Products of India Ltd.; Dir.: Mafatlal Group of Companies, National Organic Chemical Ind. Ltd., Assoc. Cement Cos. Ltd., Mahindra & Mahindra Ltd., Mafatlal AG (Switzerland), Newbridge Ind. Ltd. (Ireland) etc.; Mem. Bombay Chamber of Comm. & Ind. *Address:* Mafatlal House, Backbay Reclamation, Bombay 40 0020.

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MAHINDRA, Keshub, B.Sc., Chmn.: Mahindra & Mahindra Ltd.; Otis Elevator Co. (India) Ltd. *b.* Oct, 9, 1923. Pres.: Bombay Chamber of Commerce & Industry, 1966–67; Assn. of Indian Automobile Manufrs., 1964–65; Chmn.: Union Carbide India Ltd.; Remington Rand of India Ltd.; Intnl. Tractor Co. of India Ltd., Indian Aluminium Co. Ltd., Vickers Sperry of India Ltd, etc.; Dir.: Steel Authority of India, Ltd.; Tata Chemicals Ltd., Tata Iron & Steel Co. Ltd., Bombay Burmah Trdg. Corpn. Ltd., Bombay Dyeing & Manufg. Co. Ltd.; Otis Elevator Co. (India) Ltd.; Kaiser Jeep Intnl. Corpn. and several other companies; was Pres., Associated Chambers of Commerce & Industry; Vice-Pres., Indian Standards Institution; Chmn.: Export-Import Adv. Cttee.; Housing and Urban Devpt. Fin. Corpn. Pvt. Ltd., etc.; Mem.: National Council of Applied Economic Research; All India Board of Technical Studies in Management, etc. *Address:* Gateway Bldg., Apollo Bunder, Bombay 400039.

MAHISHI, Dr. (Smt.) Sarojini, M.A. LL.B., D. Phil. & D.Litt. (Honoris Causa), Minister of State for Law, Justice and Company Affairs. *b.* March 3, 1927. Became M.P., 1962; was Panel Chmn., Lok Sabha; Parly. Secy. to P.M., Dy. Min. attached to P.M., Dy. Min. of Tourism & Civil Aviation; Min. of State for Tourism and Civil Aviation; Pres., Sansadiya Hindi Parishad. *Address:* 3, Safdarjang Rd., New Delhi 110011.

MAITRA, Krishna Chandra, M.Sc. (Phy.), B.Sc. (Hons. Elec.) (Glasgow), B.Sc. (Mech.) (Glasgow), M.I. Mech. E., M.I. Elec. E., A.I. Brit., R.I., A.I.I. Phy. (UK), Chmn., Guest Keen Williams Ltd., since '68. *b.* Jan. 11, 1909. Tech. & Comml. Manager, Sankey Elec. Stampings Pvt. Ltd., '43; Mg. Dir., '49; Jt. Mg. Dir.: Guest Keen Williams Ltd., 1964-65; Mg. Dir., 1966-68; Chmn., GKW (Overseas Trdg.) Ltd., Sankey Wheels Ltd.; Dir., Jessop & Co. Ltd., Stewarts & Lloyds of India Ltd., Guest Keen & Nettlefolds (Overseas) Ltd., The Tinplate Co. of India Ltd.; Mem., Local Board, Reserve Bank of India, (Western India). *Address:* Rushilla, Carmichael Rd., Bombay 400026.

MALAVIYA, Pt. Keshav Deva, M.Sc., M.P. (Lok Sabha), 1971; Minister for Petroleum & Chemicals, Govt. of India, since Oct. 11, 1974. *b.* June 11, 1904. Joined the Congress movement 1921; courted jail several times; Gen. Secy., U.P. P.C.C. for many years; Organiser of the first Congress General Elections as Gen. Secy., Congress Parly. Board, 1937; M.L.A., U.P., 1946-51; Parly. Secy., U.P. Govt., '46; Minister of Devpt. & Indus., 1947–51; Parly. Secy., Govt. of India, June 3–Aug. 11, '52; Dy. Minister, Natural Resources & Scientific Research, 1954–57; Min. for Mines & Oil, 1957–62; Min. for Mines & Fuel, 1962–63; M.P., Lok Sabha, till '67; ex Chmn., Heavy Engg. Corpn. *Address:* Shastri Bhavan, Dr. Rajendra Prasad Rd., New Delhi 110001.

MALHOTRA, Lt. Gen. Om Prakash, B.A.; G.O.C.-in-C., Southern Command, since Aug. 1, 1974. *b.* Aug. 6, 1922. Commissioned into Artillery from Indian Military Academy, 1941; Instructor, School of Artillery, Devlali; Defence Services Staff Coll., Wellington, 1957-60; Military & Naval Attache, Embassy at Moscow, 1962-65; commanded Artillery Brigade in Sialkot Sector, 1965; Mountain Brigade in NEFA, 1966-67; promoted to the rank of Major-Genl. in command of an Infantry Divn., 1967; Chief of Staff, Corps Hqrs., Eastern Sector, 1969; Corps Commander, Western Sector, in rank of Lt.- Genl., 1972. *Address:* Southern Command Hqrs., Pune 411001.

MALLA, H. E. Mr. Krishna Bom, M.Sc. (Agri.), Royal Nepalese Ambassador to India, since May '72. *b.* July 1920. Chief Administrator, Rapti Valley Project, '54; Secy., Min. of Agri. & Forests and Industry & Commerce, '61; Mem. & Leader, Nepalese Delegation to ECAFE sessions, '66, '67 & '69; Mem., Nepalese Delegation to UNCTAD, '64; Nepalese Trade Mission to India on several occasions; Secy., Min. of Land Reforms, Food & Agri., '64; Chief Secy., 1968-72. *Address:* Royal Nepalese Embassy, Barakhamba Rd., New Delhi 110001.

MALTSEV, H.E. Mr. Viktor Fedorovich, Ambassador of U.S.S.R. to India, since Jan. '74. *b.* 1917. Held important posts in the Min. of Railway Communications, U.S.S.R., till '61; Chemn., Irkutsh Regional Executive Cttee. of the Soviet of the Deputies of the Wkg. People; Amb. to Sweden, '67; Finland, '71. *Address:* Embassy of U.S.S.R., Shantipath, Chanakyapuri, New Delhi 110021.

MAMMEN MAPPILLAI, K. M., B.Sc., Industrialist; Chmn. & Mg. Dir., Madras Rubber Factory Ltd. *b.* Nov. 28, 1922. Trg. in Rubber Technology in U.K. and from major plantations in India & Malaysia as well as industries in U.K., U.S.A., Japan & W. Germany; associated with the Madras Rubber Factory since its inception in '46; Pres., Local Board of the State Bank of India, Madras, Indo-American Chamber of Commerce (S. Regn.), 1971-72 & Hindustan Chamber of Commerce, Madras, 1972-73; Mem. of several regnl. & national cttees. *Address:* Madras Rubber Factory Ltd., 175/1, Anna Rd., Madras 600002.

MANDELIA, Durga Prasad, Industrialist & Businessman. *b.* Oct. 12, 1907. Chmn., Kerala Spinners Ltd., Hindustan Dowidat Tools Ltd.; Dir., Mysore Cements Ltd., Indian Rayon Corpn. Ltd., Zuari Agro Chemicals Ltd., etc.; Spl. Adviser, Hindustan Aluminium Corpn. Ltd., Jiyajeerao Cotton Mills Ltd., Century Spg., Mfg. & Wvg. Co. Ltd., Gwalior Rayons, Central India Machinery Mfg. Co. Ltd., etc.; Pres., M.P. Chamber of Commerce & Ind. *Address :* Century Bhavan, Dr. A. Besant Rd., Bombay 400025.

MANEKSHAW, Field Marshal, Sam Hormuzji Framji Jamshedji, Padma Bhushan (1968), Padma Vibhushan (1972); promoted to the rank of Field Marshal, 1973; was Chief of the Army Staff, Indian Army, June 1969–Jan. 1973. *b.* April 3, 1914; Commissioned, 4 Feb. 1934; awarded Military Cross, 1942; Brigade Major, Razmak Brigade in Waziristan, 1943-44; Instructor, Staff Coll., Quetta, 1945–46; General Staff Officer Grade 1, Military Operations Directorate, A.H.Q., 1946-47; promoted Brig., 1947; Dir. of Military Operations, 1948–52; commanded 167 Infantry Brigade, 1952–54; Dir. of Military Trg. until Jan. 1955; Major Gen., 1957; Commander, 26 Infantry Divn., J. & K. State, 1957–59; Commandant, Defence Services Staff College, Nilgiris, 1959–62; G.O.C. IV Corps, 1962–63; G.O.C.-in-C., Western Command, 1963–64; Eastern Command, 1964–69; Colonel, 8th Gorkha Rifles. *Address :* C/o National and Grindlays Bank, Bombay & New Delhi; 'Starka', Coonoor (S.I.).

MANGALDAS, Madanmohan, B.A. (Bom.), Industrialist and businessman, Ahmedabad. *b.* Oct. 5, 1917. Chmn., Indo-Pharma Pharmaceutical Works Pvt. Ltd.; Dir. of various cotton textile mills and associate concerns; Dir., National Machinery Manufrs. Ltd., Great Eastern Shipping Co. Ltd.; Pres., Ahmedabad Millowners' Assn. 1955 and 1958; elected M.L.A., Bombay, from Ahmedabad, 1951; rep. of employers on E.S.I. Corpn. and its standing cttee.; Vice-Pres., F.I.C.C. & I., 1971–72; Pres., F.I.C.C. & I., 1972–73; Mem.: Council of Adm., ATIRA; Cotton Devpt. Council; Dir.: Mahindra Ugine Steel Co. Ltd.; Chmn.: Gujarat Housing Board, 1960–67; Indian Cotton Mills Fedn., Bombay, 1967–69. *Address :* Mangal Bag, Ellis Bridge, Ahmedabad 380006.

MANI, Maj. Gen. (Retd.), Oommen Modale, Mem., Instt. of Engrs. (India), Chmn. & Mg. Director, Bharat Earth Movers Ltd., Bangalore. *b.* June 4, 1920. Active service in Burma during World War II; Was Commander, Works Engnrs. (M.E.S.), Cochin; Commandant, Madras Engg. Group & Centre of Corps of Engrs. (Army), Bangalore; Chief Engnr., Border Roads Orgn.; Dy. Quartermaster-General, Army Hq. *Address :* Bharat Earthmovers Ltd., Unity Bldgs., Jayachamarajendra Rd., Bangalore 560002.

MANSINGHKA, Mahavir Prasad, Businessman; Chmn., All India Cottonseed Crushers' Assn.; Mg. Dir., Mansinghka Industries P. Ltd. *b.* Nov. 21, 1927. Dir.: Indo Solar Ltd.; Shree Mansinghka Oil Mills (P) Ltd.; Rajasthan Vanaspati Products (P) Ltd.; Shyam Properties Ltd. *Address :* 83, Ashoka Apartments, 68, L. Jagmohandas Marg, Bombay 400006.

MARZBAN, Adi Pherozeshah, B.A., Padma Shri (1964), Editor, *Jame Jamshed*, Bombay, since '36. *b.* Apr. 17, 1914. Staff Producer of English & Gujarati Plays, A.I.R., Bombay, '46; received Intnl. Theatre Instt. Scholarship (UNESCO), '52; Sangeet Natak Akademi Award for best Director, '70. *Address : Jame Jamshed*, Ballard House, Mangalore St., Bombay 400038.

MASANI, Minocher Rustom, Author and Management Consultant; Editor, *Freedom First*. *b.* Nov. 20, 1905 in Bombay. Founder and Jt. Secy., Congress Socialist Party, 1934–39; Mem., Bombay Municipal Corpn., 1935–45; Mayor, 1943–44; Mem.: Indian Leg. Assembly, 1945–47; Constituent Assembly of India, 1947–48; Amb. of India in Brazil, 1948–49; M.P. 1949–52, 1957-62 & 1963-1971; Chmn., U N Sub-Commn. on Discrimination and Minorities, 1950-52; Gen. Secy., Swatantra Party 1960-67 and Pres., 1970-71; Patron, Liberal Intnl.; Head of Personnel and Productivity Services, Management Consultants. *Address :* 148, M. Gandhi Rd., Bombay 400023.

MATHEW, Mr. Justice Kuttyil Kurien, B.A. (1932), B.L. (1934), Judge, Supreme Court of India, since Oct. 4, 1971. *b.* Jan. 3, 1911. Practised at the Trivandrum Bar, 1935-60; Advocate-General, Kerala, 1960-62; Judge, Kerala High Court, 1962-71. *Address :* 2, Motilal Nehru Marg, New Delhi.

MATHUR, Hirdaya Behari, B.Sc., M.Sc., Ph.D., Fellow: Indian Nat. Sci. Academy; Indian Academy of Sciences; Scientist, National Chemical Laboratory, Pune, since '58. *b.* May 27, 1928. All India Research Fellow, Delhi Univ., 1948–50; Lecturer, Deptt. of Chemistry, Delhi Univ., 1950–58; Research Fellow, Lawrence Radiation Laboratory, Univ. of Calif., 1952–54; Research Associate, Enrico Fermi Instt. for Nuclear Studies, Univ. of Chicago, 1954–55; Mem.: Bd. of Editors, Indian Journal of Chemistry; Catalysts Res. Cttee., C.S.I.R.; *Address :* B/3, National Chemical Lab. Campus, Pune 411008.

MATHUR, Mukeshchandra Zoravarchand, Playback Singer. *b.* July 22, 1923. Joined films, '40; switched over to playback singing, '42; produced *Malhar & Anurag* in 50's; presently recording the entire *Ram Charitra Manas*; recipient of three Filfare & other awards. *Address :* 702, Jyoti, 68, Napean Sea Rd., Bombay 400006.

MAYBEE, Mr. H.E. John Ryerson, A.M., Ph.D., High Commissioner of Canada to India and concurrently Amb. to Nepal, since Sept. 1974. *b.* 1918; Deptt. of External Affairs, 1946; Nanking (China), 1947–49; Canberra (Australia), 1949–53; Washington D.C., 1956–60; Amb. to Lebanon, Syria and Jordan, 1964–67; Service in Ottawa, 1967–74; Dir., African and Middle Eastern Affairs, 1969–70; Secretary, Inter-Deptl. Cttee. on External Relations, 1970–73; Dir.-General, Bureau of Consular Affairs, 1973–74. *Address :* Canadian High Commission, Shantipath, Chanakyapuri, New Delhi 110021.

MEHRA, Air Chief Marshal Om Prakash, Param Vishisht Seva Medal (1968), Chief of the Air Staff since Jan. 16, '73. *b.* 19, 1919. Joined Air Force '40 and saw active service in N.W.F.P. and Burma; commanded Air Force Trg. Institutions, 1947-54; Director of Trg., Air Hqrs., 1954-55; Air Officer-in-Charge, Policy & Plans, Air H.Q., '60; Dean, Instt. of Armament Technology, 1960-63; Air Officer Commanding, Maintenance, 1963-67; Air Officer-in-Charge. Maintenance, Air Hqrs., 1967-69; Dy. Chief of Air Staff, 1969-71; Chmn., Hindustan Aeronautics Ltd., Mar. '71–Oct. '73. *Address :* Air Headquarters, Vayu Bhavan, New Delhi 110011.

MEHTA, Asoka, Economist and Politician; President; Indian National Congress (O), from July 15, 1973. *b.* Oct. 24, 1911. Founder member of Congress Socialist Party, 1934; Gen. Secy., 1950-53; Chmn., PSP., 1959-63; Mem. of national exec. for 30 years; was Dy. Leader of P.S.P. group in Parlt.; Prominent trade unionist; Founder of Hind Mazdoor Sabha (1949); its first Gen.

Secy., Chmn., Foodgrains Enquiry Cttee. and Powerloom Enquiry Cttee., Dy. Leader, Indian delegation to U.N., 1963; Dy. Chmn., Plng. Commn., 1963–66; Min. for Plng., Govt. of India, 1966-67; Min. for Plng., Petroleum & Chemicals, Mar.-Sept. 1967; Min. of Petroleum and Chemicals and Social Welfare, 1967–68; Mem.: National Defence Council; Cong. Wkg. Cttee., 1969-'71. *Address:* 5, Dadyseth Rd., Babulnath, Bombay 400007.

MEHTA, Fredie Ardeshir, M.A. (Bombay); M.Sc. and Ph.D.(London School of Economics); Business Economist. *b.* July 31, 1928. Master of Science thesis on "Economic Cooperation Between India and South-East Asia", 1953; Doctoral Thesis on "Terms of Trade as a Factor of Economic Growth", 1955; Joined the Tata Administrative Service, 1956; Economic Adv. to Tata Industries, 1966; Dir.: Tata Industries Pvt. Ltd., Tata Sons Pvt. Ltd., Ahmedabad Advance Mills Ltd., Tata Oil Mills Co. Ltd., Rallis India Ltd., The Standard Mills Co. Ltd. and Tata Precision Industries Pvt. Ltd. (Singapore); in charge of Tata Economic Consultancy Services and of Foreign Operations, Tata Sons (P) Ltd., 1970; Mem.: Study Team on Wages, National Labour Commn.; Local Adv. Board of the First National City Bank; General Body and the Board of Governors of the Instt. of Financial Management and Research; first Chmn. of the Economics Cttee. of the Associated Chambers of Commerce and Industry and of the Cttee. on Indo-U.S. Collaboration. *Address:* Bombay House, Homi Mody St., Bombay 400023.

MEHTA, Dr. Jivraj Narayan, L.M. & S. (Bom.), M.D. (Lond.) (Univ. Medal), M.R.C.P. (Lond.), F.C.P.S. (Bom.), Padma Vibhushan (1972), ex-Chief Minister, Gujarat. Former Indian High Commr., U.K.; M.P., Lok Sabha, since 1971; *b.* Aug. 29, 1887. Dean, K.E.M. Hospital and G. S. Medical Coll., Bombay, 1925-42; Pres., Indian Medical Assn., 1930, and '45; Mem.: Board, of Scientific and Ind. Research, India, 1942-62; C.S.I.R., 1960-62; Dir.-Gen. of Health Services, Govt. of India, 1947–48; Diwan of Baroda, 1948–49; Mem., Syndicate, Baroda Univ., 1949–60; P.W.D. Min., Bombay, 1949–52; Min. for Finance, Govt. of Bombay, 1952–60; Chief Min., Gujarat, 1960–63; Indian High Commr. to U.K., 1963–66. *Address:* C/o The Bank of Baroda, Fort, Bombay 400001.

MEHTA, Om, B.A., Union Min. of State for Administative Reforms & Party Affairs in the Ministry of Home Affairs. *b.* Feb. 20, 1927. M.L.C., J. & K., 1957–64; Pres., D.C.C., Doda, '66; Mem.: Rajya Sabha, since Apr. '64; A.I.C.C., since '67; Exec. Cttee. of Cong. Party in Parliament, since 1967, Dy. Chief Whip, Congress Party (Rajya Sabha), since '67; Min. of State for Parl. Affairs, 1970–71; Shipping & Transport, 1971–73; Works & Housing, 1973–74; led delegation to Asian Highway Confce., Bangkok, '71; Laos '72; delegate, Indian Group of Inter Parliamentary Union to the Confce. on 'Control on Pollution in Mediterranean Sea and Environment'. *Address:* 30, Prithvi Raj Rd., N. Delhi 110011.

MENON, C. Achutha, B.A., B.L., Chief Minister, Kerala. *b.* Jan. 27, 1913. Started career as Dist. Court pleader; took part in Congress and trade union activities; joined C.P.I., 1942; was Secy., Dist. Cttee., C.P.I. for five years; went underground, 1948–52; elected M.L.A. on communist ticket: Travancore-Cochin, 1952–54; Kerala 1957–59; Finance Min., Communist Ministry, Kerala, 1957–59; elected to the Kerala Assembly in mid-term poll, 1960; elected to the Rajya Sabha, April 1968. Chief Min., Kerala from Nov. 1, 1969; resigned in Aug. 1970 and again became Chief Min. in Oct. 1970. *Address:* 'Cantonment House', Trivandrum.

MENON, K. P. Kesava, B.A., Bar-at-Law, Padma Bhushan (1966), Tamrapatra (1972), Chief Editor, *Mathrubhumi*, Kozhikode, since Oct. 1952. *b.* Sept. 1, 1886; called to the Bar 1915. Set up practice in Calicut; joined the Indian National Congress and Home Rule League movement; gave up practice to join the 1921 N.C. Movement; Secy., Kerala P.C.C.; founded the *Mathrubhumi*, Malayalam Daily, 1923; led the famous Vaikam Satyagraha movement in Travancore to establish the right of the untouchables to walk along public roads, 1924; set up practice in Singapore, 1927; took active part in the Indian assns. and labour orgns.; imprisoned by the Japanese, 1944; released after the liberation; Pres., Aikya Kerala Cttee., 1949; was Mem., Std. Cttee., A.I.N.E.C.; High Commr. in Ceylon, 1951–52; Wkg. Pres., Kerala Sahitya Akademi, 1957–62; Fellow, Kerala Sahitya Akademi, 1970. *Address: Mathrubhumi*, Kozhikode, Kerala.

MENON, K. P. S., M.A. (Oxon.), C.I.E., Padma Bhushan (1958), I.C.S. (Retd.), Chmn.: Sangeet Natak Akademi; Pres., Indo-Soviet Cultural Socy.; Fellow, Indian Council for Cultural Relations (1968); Ex-Indian Amb. to Russia. *b.* Oct. 18, 1898; I.C.S., 1921. Addl. Dy. Secy. to the Govt. of India, Foreign and Political Dept.; Under-Secy. to the Hon. Resident at Hyderabad; also on the Frontier for 3 years; Agent to the Govt. of India in Ceylon, 1929-33; deputed by Govt. of India on Spl. Mission to Zanzibar, Kenya & Uganda, to enquire into the position of Indians there, 1934; Dewan of Bharatpur State for about 3 years; attended: San Francisco Cfee., 1945; Gen. Assembly of the U.N., 1946; Agent-Gen. of the Govt. of India in China, 1943-47; Amb. in China, March 1947; Chmn., U.N. Commn. on Korea, 1948; Forgn. Secy., Govt. of India, 1948-52; Amb. to U.S.S.R., Hungary & Poland, 1952-61. *Address:* Palat House, Ottapalam, Kerala State.

MENON, Dr. Mambillikalathil Govind Kumar, M.Sc. (Bombay), Ph.D. (Bristol), F.A.Sc., F.N.A., D.Sc., (h.c.), Jodhpur Univ., Delhi Univ. and Sardar Patel Univ.; S. S. Bhatnagar Award for Physical Sciences (1960), Padma Shri (1961), Padma Bhushan (1968), F.R.S.; Scientific Adviser to the Min. of Defence and Secretary, Defence Research for R & D; Dir.-General, Defence Research and Devpt. Organisation; Chmn., Electronics Commn. since Feb. 1971. *b.* Aug. 28, 1928. Research Associate, Bristol Univ., 1952–53; held Senior Award of the Royal Commn. for the Exhibition of 1951 (1953-55); at the T.I.F.R., Bombay—as Reader, 1955-58; Associate Prof., 1958-60; Prof., 1960-64; Senior Prof. and Dy. Dir. (Physics), 1964–66; Dir., Tata Institute of Fundamental Research, Bombay; Pres., Asia Electronics Union; Mem., Space Commn., Govt. of India; Secy., Dept. of Electronics, Govt. of India; Chmn., Cosmic Ray Commn. of the "Intnl. Union of Pure and Applied Physics" and U.N. Sec.-Gen.'s Adv. Cttee. on Application of Sci. & Tech. to Devpt. *Address:* Dept. of Electronics, Vigyan Bhavan Annexe, Maulana Azad Rd., New Delhi 110011.

MENON, Dr. V. K. Narayana, M.A., Ph.D., Padma Bhushan (1969), Executive Director, National Centre for the Performing Arts since Oct. 1968; Hon. Exec. Dir., Homi Bhabha Fellowships Council. *b.* June 27, 1911. BBC Eastern Services, 1942-47; All India Radio—various positions including Dir. of Calcutta, Madras and Delhi Stations, External Services; Dy. Dir. Gen. etc., 1948-63; Secy., Sangeet Natak Akademi, 1963; Dir.-Gen., A.I.R., 1965-68; Rockefeller Travel Grantee, 1957; Pres., Intnl. Music Council (UNESCO), 1966-68; Trustee, Intnl. Broadcast Instt.; Mem., UNESCO Adv. Panel on Space

Communication, 1965-68 ; Mem., Exec. Board, Sangeet Natak Akademi ; Scholar-in-Residence, Aspen Instt. for Humanistic Studies — Summer 1973. *Address :* Executive Director, National Centre for the Performing Arts, Nariman Point, Bombay 400021.

MERCHANT, Vijay Madhowji, B.Com. (Bombay); Veteran Cricketer ; Managing Director, Sirdar Carbonic Gas Co. Ltd. ; Pres. : The National Assen. for the Blind, 3-R Society (Society for Re-constructive Surgery, Rehabilitation & Research), NASEOH (National Society for Equal Opportunities for the Handicapped), Cricket Club of India Ltd. *b.* Oct. 12, 1911 ; Joined Thackersey Group, 1932 ; actively associated with blood donation and donation of eyes ; played for India in intnl. cricket, 1933–34 ; figured in 10 Test matches for India — all against England ; retd. from first-class cricket, 1951 ; average in first-class cricket, 72·23, only next to that of Don Bradman ; Sheriff of Bombay, 1969–70. *Address :* Sir Vithaldas Chambers, 16, Bombay Samachar Marg, Bombay 400023.

MEURS, H. E. Mr. Tjark Asueer, M.A. (Econ.), Ambassador of Netherlands to India & concurrently to Nepal, Sri Lanka and Burma, since 1973. *b.* Sept. 18, 1913. Served Netherlands Indies Govt., 1938-47 ; Mem., Netherlands Mission to the Orgn. of European Economic Co-opn., Paris, 1948-56 ; Commercial Counsellor, Netherlands Embassy, Mexico, 1956-64 ; Consul-Genl., Sao Paulo, 1964-66 ; Amb., Colombia, 1966-70 ; Philippines, 1970-73. *Address :* Embassy of Netherlands, 6/50F, Shantipath, Chanakyapuri, New Delhi 110021.

MIRDHA, Ram Niwas, M.A., LL.B., Min. of Defence Production, Govt. of India, since Oct. 10, 1974. *b.* Aug. 24, 1924. Min. of Irrigation, Agri. and Transport, Rajasthan, 1954-57 ; Speaker, Rajasthan Leg. Assembly, 1957-67 ; Mem., Raja Sabha, since 1967 ; Min., Ministry of Home Affairs and in the Deptt. of Personnel & Admve. Reforms, Govt. of India, 1970-74. *Address :* 17, Safdarjung Rd., New Delhi 110011.

MISRA, Gatikrisna, B.A. (Hons. in Economics), M.A. (Econ.), B.L. Chief Justice, Orissa High Court, since May 1, 1969. *b.* Nov. 1, 1913. Joined Cuttack Bar, 1940 ; Munsif, 1943-48 ; Subordinate Judge, 1948-50 ; resigned and enrolled as Advocate, Orissa High Court ; was Editor for Cuttack Law Times and Supreme Court Decisions ; Judge, Orissa High Court, 1962-69 ; Ag. Governor, Orissa, July–Nov. 1972 and Aug.–Oct. 1974. *Address :* Chief Justice's Bungalow, Killa Fort, Cuttack 753001.

MITRA, Dr. Bhupendra Nath, ex-Colonel, D.Sc. (Dacca), Ph.D. (Minnesota), F.R.I.C., Sigma XI, Scientist. *b.* 1905. Awarded Rockefeller Foundation Fellowship, 1936-37 ; invited to attend Intnl. Congress for microbiology, New York, 1939 and for pure and applied chemistry, London, 1947 ; commissioned in the Indian Army, 1940 ; Asstt. Dir. Gen., C.S.I.R., 1958-59 ; Dir., Regional Research Laboratory, Jorhat, 1959-64 ; Dir., Central Indian Medical Plants Orgn., Lucknow, 1964–65 ; Emeritus Scientist, C.S.I.R., 1966–71 ; formulated explosive PEK and some ammunition of conventional weapons. *Address :* 83/1A, Ballyganj Place, Calcutta 700019.

MITRA, Sankar Prasad, M.A. (Cantab.), Barrister-at-Law, Chief Justice, West Bengal, since July 30, 1972. *b.* Dec. 26, 1917. Joined Calcutta High Court, 1944 ; Central Govt. counsel for several years ; appeared before Radcliffe Boundary Commn. on behalf of Cachar D.C.C. ; M.L.A., W. Bengal, 1952 ; Min., Land Revenue, Judicial & Legis. Deptts., W. Bengal, 1956 ; responsible for reforms establishment of City Civil & Sessions Courts, Calcutta ; Judge, Calcutta High Court, 1957-72. *Address :* 5, Cooper St., Calcutta 700026.

MITTER, Bhasker, Businessman; Chmn., Metal Box Co. of India Ltd., etc. *b.* Oct. 11, 1919. Joined Andrew Yule & Co. Ltd. & became Mg. Dir. ; its Chmn., 1968-72 ; Dir. : Dunlop India Ltd., Union Carbide India Ltd., Chloride India Ltd., Mahindra Ugine Steel Co. Ltd., Indl. Credit & Investment Corpn. of India Ltd. & W. Bengal Indl. Devpt. Corpn. Ltd.; Chmn., W. Bengal Financial Corpn. ; Pres., Associated Chambers of Commerce & Ind. of India, 1971-72 ; Ex-Pres., Bengal Chamber of Commerce & Ind. ; Ex-Chmn., Calcutta Management Assn. *Address :* Metal Box Co. of India Ltd., 59-C, Chowringhee, Calcutta 700020.

MODI, Rai Bahadur Seth Gujarmal, Padma Bhushan (1968), Industrialist ; Chmn., Modi Enterprises, Modinagar. *b.* Aug. 1902, Patiala State. Pres., F.I.C.C.I., 1968–69 ; Founder, 'Modinagar', in Meerut, Dt. U.P. ; established industries like Modi Sugar Mills, Modi Vanaspati Manufg. Co., Modi Paint & Varnish Works, Modi Steels, Modi Arc Electrodes Co., Modi Spg. & Wvg. Mills Co. Ltd., Modi Thread Mills, Haryana Distillery at Jagadhri ; Patiala Flour Mills Co. (P) Ltd., Patiala and Modi Flour Mills, Okhla, New Delhi, Associated Tubewells (I) P. Ltd., Modipon Ltd., and several others ; Pres. : Modi Charitable Fund Socy. ; Chmn., R. B. Multanimal Charitable Trust ; Founder, Western U.P. Chamber of Commerce ; Ex-Pres. : Western U.P. Productivity Council ; is a philanthropist ; built an Industrial Colony 'Govindpuri', with Govt. aid, to rehabilitate the displaced persons ; Estd. Modi Rubber Ltd. and Modipuram Township. *Address :* P.O. Modinagar (Meerut), U.P.

MODI, Kedar Nath, Industrialist ; President, Modipon Ltd. ; Vice-Chmn. & Dir. : Modi Ind. Ltd., Modi Spg. & Wvg. Mills Co. Ltd. and Modi Rubber Ltd. *b.* May 21, 1922. Director of several companies including Govt. undertakings such as U.P. State Ind. Devpt. Corpn. Ltd. ; National Textile Corpn. Ltd., Pradeshiya Ind. Investment Corpn. of U.P. Ltd., etc. ; Ex-Chmn., Devpt. Council for Man-made Textiles ; All India Manufrs. Orgn. ; Mem. : Indian Cotton Mills' Fedn. Cttee., Fedn. of Indian Chambers of Commerce & Ind., Central Adv. Council of Industries, Iron & Steel Adv. Council, Textile Cttee., Board of Trade, etc. *Address :* Modi Bhawan, Modinagar (U.P.).

MODI, Suresh Kumar, Businessman. *b.* June 6, 1939. Dir.-in-Charge, Modi Flour Mills, since 1959 ; Mg. Dir., Modi Industries Ltd., Modinagar ; looks after Modi Gas & Chemicals, Modi Paints & Modi Soap ; Mem., All India Toiletries Mfrs.' Assocn. ; Adv. Board of Employees State Insce.; Vice-Pres., A.I.M.O. (N. Regn.) ; Ex-Chmn., All India Paints Assocn. (N. Zone) ; Ex-Pres., A.I.M.O., Delhi State Board ; Lions Club of Delhi United, etc. *Address :* Modi Flour Mills, Okhla Ind. Estate, New Delhi 110020.

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Vice-Pres. : National Council of Women in India, 1948–53 ; Mem. : Small Scale Industries Board 1962–66 ; Senate, Sardar Vallabhbhai Vidyapith, since 1956 and its Syndicate, 1962–67 and 1972 ; organised Swadeshi Market and was elected its Pres. ; M.P. (Rajya Sabha), 1952–58 ; Chmn., Instt. of Catering Tech. and Applied Nutrition, 1962–74 ; Pres., Bharatiya Vidya Bhavan 1971–73. *Address :* Bharatiya Vidya Bhavan, Chowpatty, Bombay 400007.

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Madras, 1939–40 ; Mem., Central Cttee., C.P.I. from 1941 ; Mem., Politbureau, from 1950 ; Actg. Gen. Secy., June–Dec. 1953, July–Dec. 1954 and 1955–56 ; elected M.L.A., Kerala in the Gen. Elections 1957 ; Chief Min., Kerala, 1957–59 ; elected to Kerala Leg., 1960, '65, '67 and 1970 ; Gen. Secy. C.P.I., 1962–63 ; detained under D.I.R., Feb. 1, 1966 ; Chief Min., Kerala State 1967-69. *Address :* Plot 10, Santhi Nagar, Trivandrum, Kerala State.

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Vice-Chmn., 1966–67 ; Min. of State : Min. of Finance, Govt. of India, 1967–69 ; Steel and Heavy Engg., 1969–70 ; Min. of State for Home, Dept. of Science, Electronics & Atomic Energy 1970–73 ; Min. for Irrigation & Power, 1973–74. *Address :* Ministry of Energy, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001.

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awarded first prize for best film direction for his 'Mahanagar' and 'Charulata' by the Berlin Intnl. Film Festival, 1964 and 1965; special award of honour by the 16th Intnl. Film Festival in Berlin in recognition of his artistic eminence in the world of film, 1966. *Address :* 1/1, Bishop Lefroy Rd., Calcutta 700020.

RAY, Siddhartha Shankar, Chief Minister, West Bengal, since March 20, 1972. *b.* Oct. 20, 1920. Joined Calcutta Bar, 1947; Jr. Central Govt. Counsel for W. Bengal, 1954; elected M.L.A. from Bhawanipur, 1957; Min. for Law & Tribal Welfare in Dr. B. C. Roy's cabinet; resigned and re-elected M.L.A., 1958 and 1962; contested the 1967 General Elections and re-elected from the same constituency; also in mid-term elections in 1969; elected, leader, Congress Leg. Party in W. Bengal and leader of the Opposition in W. Bengal Assembly; elected M.P., 5th Lok Sabha, 1970, elected M.L.A. from Malda, West Bengal, 1972, was Union Min. of Educ., Social Welfare & Culture and Min.-in-charge, West Bengal affairs, July 1971–Mar. 1972; is a keen sportsman and has appeared in many well-known cases of various States. *Address :* Writer's Building, Calcutta.

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REDDY, K. V. Raghunatha, M.A., LL.B., Minister for Labour & Rehab., Govt. of India, since Feb. 5, 1973. *b.* Sept. 4, 1924, at Virur, Nellore Dist. Enrolled as Advocate, Madras High Court, 1950 and Supreme Court, 1958; elected member, Rajya Sabha, 1962 and 1968; represented Rajya Sabha at the Commonwealth Cfce., 1966; Min. of State in the Min. of Ind. Devpt. and Company Affairs, 1967–June, 1970; Min. of Co. Affairs, June 1970–Feb. 1973; delivered extension lectures in Humbold Univ., E. Germany and at the Institute of Economics and Politics, Prague. *Address :* Department of Company Affairs, Govt. of India, New Delhi.

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RELE, Dr. Jawahar Raghunath, M.Sc. (Bom.), Dip. in Demography, Ph.D. (Calif.), Director, International Instt. for Population Studies, Bombay, since July 1973. *b.* Aug. 12, 1931. Social Research, Tata Instt. of Social Sciences, Bombay, Jan. 1956–Feb. 1957; Biostatistician, Topiwala National Medical Coll., Bombay, July 1959–Aug. 1960; Teaching & Research, Univ. of Calif., Berkeley, U.S.A., Sept. 1960–July 1965; Prof., Intnl. Instt. for Population Studies, Aug. 1965–July 1973; Mem.: Intnl. Union for Scientific Study of Population, Belgium; Intnl. Planned Parenthood Fedrn., London etc. *Address :* 'Pinto Ville', 1969, Gokhale Rd. (North), Dadar, Bombay 400028.

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SANGMA, Capt. Williamson A., Chief Minister, Meghalaya, since April 1970. *b.* Oct. 18, 1919. Served in the Army during World War II ; Entered politics and has been Pres., Garo National Council, since 1947 ; subsequently Chief Exec., One of the Founders of Eastern India Tribal Union and became its Chmn. ; elected to Assam Leg. Assembly, 1957 & 1962 ; resigned and re-elected 1963 ; was Minister for Tribal Areas, Transport, etc. Assam, 1958–60 ; Founder, All Party Hill Leaders' Cfce. and Chmn., since 1961 ; again elected to Assam Assembly, 1967, but resigned in 1968 ; elected to the Interim Leg. Assembly of Meghalaya in March 1970 and became its first Chief Minister. *Address :* T. Taraghar, Lake Side, Shillong.

SANKALIA, Dr. Hasmukh Dhirajlal, M.A., LL.B., Ph.D. (London), Padmabhushan (1974). Emeritus Professor, Jawaharlal Nehru Memorial Fellow, Deccan Coll. Post-Graduate at Research Instt., Pune. *b.* Dec. 10, 1908. Conducted excavations and explorations in prehistory and early history relating to Gujarat, Maharashtra, Karnatak, Madhya Pradesh, Andhra Pradesh, 1941–65 ; Kashmir & Assam, 1969–70 ; Govt. of India delegate to Intnl. Cong. of Orientalists, Ann Arbor, U.S.A., 1967. Intnl. Symposium on : Early Man, Paris, 1969. *Address :* Deccan College Research Institute, Pune 411011.

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SATPATHY, Smt. Nandini, M.A., Chief Minister, Orissa State, since Mar. 1974. *b.* 1931 ; Has been a social worker ; M.P., Rajya Sabha, 1962, re-elected 1968 ; National Young Women's Cttee. ; Mem. : Indian Council for Child Welfare ; A.I.C.C., and Wkg. Cttee. of A.I.C.C., Pres., Vice-Pres. & Secy. of many orgns. engaged in the welfare of women, youth and children ; Leader, Indian Delegation to : Film Festival, Moscow ; First Afro-Asian Intnl. Film Festival, Tashkent, Oct. 1968 ; Dy. Min., I & B, 1966–69 ; Deputy Min. attached to the Prime Minister, 1969–70 ; Min. of State attached to the Prime Minister, June 1970–Mar. 1971 ; Min. of State for Information and Broadcasting, 1971–72 ; Chief Min., Orissa State, June 1972–Feb. 1973 ; Pres., Orissa P.C.C., since April 1973. Led India's delegation to UNESCO held at Paris in 1968 and Iraq for Intnl. Trade Fair, Oct. 1971. *Address :* Bhubaneshwar, Orissa.

SAXBE, H. E. Mr. William Bart, Ambassador of U.S.A. to India. *b.* June 24, 1916. Graduated from Ohio State Univ., 1940 ; received law degree, 1948 ; elected to Ohio House of Representatives, 1947 ; re-elected three times ; Speaker of the House, 1953, 1954 ; Ohio Attorney-General, 1957-58 & 1963-68 ; elected to U.S. Senate, 1968 ; Attorney-General, Jan. 4, 1974 ; was Mem., Senate Cttees. on Armed Services, Govt. Operations, Post Office & Civil Service and the Spl. Cttee. on Aging. *Address :* American Embassy, Chanakyapuri, New Delhi 110021.

SEN, Mihir Kumar, B.Sc., LL.B., Barrister-at-Law, Associate Fellow, Br. Inter-Planetary Socy., Padma Shri, Padma Bhushan (1967), Swimmer. *b.* Nov. 16, 1930, at Purulia (West Bengal) ; called to the Bar from Lincoln's Inn, Nov. 1954. Set up practice at Calcutta High Court, May 1956 ; first ever Indian to attempt and swim the English Channel from Dover to Calais, Sept. 1958, in 14 hours 45 mins., then the fourth fastest in this direction ; first man to swim the Palk Strait, a distance of 22 miles between India & Sri Lanka in 25 hrs. 36 min., 5/6 April, 1966 ; first Asian to swim the Straits of Gibraltar on Aug. 24, 1966 ; first man to swim the Dardanelles Straits a distance of about 40 miles in 13 hours and 55 minutes, Sept. 12, 1966 ; swam the straits of Bosporus, 16 miles, Sept. 21, 1966 ; Panama Canal 42 miles, 35½ hours, Oct.

29 to 31, 1966; acknowledged as the world's Greatest Long Distance Swimmer by Guinness Book of Records Lond. 1969. Founder, Explorers' Club of India, Calcutta. *Address :* 10, Government Place East, Calcutta 700001.

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SEN, Samar, B.A. (Cal.), B.Sc. (Lond.), I.C.S., Kaiser-i-Hind (1943), Padma Shri (1957), High Commr. to Bangladesh since July 15, 1974. *b.* Aug. 10, 1914. Entered I.C.S., 1938; held several posts in Bengal, 1939–46; Under-Secy., Dept. of Ext. Affairs, Govt. of India; Liaison Officer for the Govt. of India at the U.N., New York, 1946–48; Dy. Secy., Min. of Ext. Affairs and Commonwealth Relations; Head of Chancery, High Commn. of India in London; Dy. Secy. (Ext. Affairs) in Charge of Ext. Publicity, 1951-53; Consul-Gen. in Switzerland (Geneva) and Indian Rep. to the Intnl. Org. at Geneva, 1953–55; Chmn., Intnl. Commn., Laos, 1955-57; Joint Secy., Min. of Ext. Affairs, 1957-59; High Commr. in Australia & New Zealand, 1959-62; Amb. to Algeria, 1962-64; Amb. to Jordan, Kuwait & Lebanon & High Commr. to Cyprus, 1964–66; High Commr. to Pakistan, 1966–68; Permanent Rep. for India in U.N., Jan. 1969–May 1974. *Address :* C/o Ministry of External Affairs, New Delhi 110011.

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SETHNA, Homi Nusserwanji, B.Sc., B.Sc. (Tech.), (Bom.), M.S.E. (Chem. Engg.) Mich., F.A.Sc., F.N.A., Padma Shri (1959), Shanti Swarup Bhatnagar Memorial Award (1960), Padma Bhushan (1966), Padma Vibhushan (1975); Sesquicentennial Award of the Mich. Univ. (1967); Sir Walter Puckey Prize (1971); Doctor of Sci. (Honoris Causa), Marathwada Univ. (1973); Sir William Jones Memorial Medal (1974) by Asiatic Society of Cal.; LL.D. (Honoris Causa), B'bay Univ. (1974); Doctorate in Technology, J. N. Technological Univ., Hyderabad (1974); D.Sc. (Honoris Causa), Roorkee Univ., 1975; Engr.; Chmn., Atomic Energy Commn. and Secy. to the Govt. of India, Dept. of Atomic Energy, since Jan.

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SHAH, Viren J., Chmn. & Mg. Dir., Mukand Iron & Steel Works Ltd., *b.* May 12, 1926 in Calcutta. Dir. of several industrial Orgns. ; Founder Chmn., Steel Furnace Assn. of India ; Ex-Chmn., Steel Re-Rolling Mills' Assn. of India ; Mem. : Cttee. of F.I.C.C. & I., New Delhi ; was Pres., Indian Merchants' Chamber, Bombay ; M.P., Lok Sabha 1967-70. *Address :* Mukand Iron & Steel Works Ltd., Express Towers, Nariman Point, Bombay 400021.

SHAM LAL, Editor, *The Times of India*, Bombay, Delhi & Ahmedabad, since Nov. 1967 ; Editor : *The Evening News of India*, Bombay, *The Times of India Annual*, Bombay, and *The Times of India Directory & Yearbook including Who's Who*, Bombay. *b.* Nov. 7, 1912. With *The Hindustan Times*, 1934–46 ; Asstt. Editor, *Indian News Chronicle*, Delhi, 1946–50 ; joined *The Times of India* as Asstt. Editor, 1950 ; Resident Editor, *The Times of India*, Delhi edition, 1963–67 ; writes an occasional political column "The National Scene". *Address : Office :* The Times of India, Bombay 400001 ; *Res. :* 22, Ashoka Apartments, Napean Sea Rd., Bombay 400006.

SHANKAR, Ravi, Presidential Award (1962), Padma Bhushan (1967), Hon. Doctor of Fine Arts (California Univ.) (1968), Hon. Doctor of Music, Indira Kala Sangit Viswavidyalaya (1972), Musician. *b.* April 7, 1920. Began his career in the company of Uday Shankar ; later devoted himself to sitar with Ustad Allaudin Khan ; Dir. of Music, A.I.R. 1949–55 ; participated in the 10th Anniversary celebration of the U.N. & UNESCO'S music festival in Paris, 1958 ; first Indian musician to write music for foreign films ; has concertised widely in Europe, U.S.A. & Australia, since 1961 ; wrote & conducted orchestral music for a ballet set to Nehru's *Discovery of India* ; opened the Kinnara School of Music in Los Angeles, May 1967 ; won Silver Bear for score and Venice Festival Award ; Concerto for Sitar commissioned by London Symphony Orchestra, 1971. *Address :* C/o Sancharini, Kumar Apartments, 81-A, Linking Rd., Bombay 400054.

SHANKWALKAR, Dr. G. B., L.D.S., C.P.S., B.D.S., M. S. (Indiana Univ., U.S.A.), Pres., Dental Council of India, since Feb. 1, 1974. *b.* Jan. 15, 1929. Prof. of Periodontia & Head, Oral Pathology Deptt., Govt. Dental Coll. & Hosp., Bombay ; has guided over 33 research projects and published over 30 papers ; Mem., Intnl. Assn. for Dental Research, American Academy of Periodontology, Indian Academy of Dentistry, Indian Dental Assn., Dental Council of India, etc. *Address :* Deptt. of Periodontia, Govt. Dental Coll. & Hosp., P. D'Mellow Rd., Bombay 400001.

SHANTARAM, V., leading Film Producer, Dir. & Actor. *b.* Nov. 18, 1901. Associated with film industry from 1920 ; Founder Mem., Prabhat Film Co., Pune ; recipient of National & Intnl. Awards for best picture, best direction, best techniques, etc. ; was Chief Producer, Govt. Films Divn. ; Ex-mem., Censor Board, Film Adv. Boards etc. ; his film "Two Eyes Twelve Hands" won the "Gold Bear" of the Intnl. Film Festival, Berlin, The Hollywood Foreign Press' Samuel Goldwyn Award for the "Best Picture" and a plaque by the Catholic Film Bureau, Brussels for the "best human document." *Address :* Rajkamal Kalamandir (Pvt.) Ltd., Parel, Bombay 400012.

SHARMA, Anant Prasad, Minister of State for Industry and Civil Supplies, Govt. of India, since Oct. 1974. *b.* Dec. 25, 1919. Trade Unionist & Cultivator ; M.P. Lok Sabha, 1962–67 and since 1971 ; M.P., Rajya Sabha, 1968–71 ; Mem., Exec. of the Cong. Party in Parliament, 1965–66 & 1972 ; Dy. Leader, Cong. Party in Parliament, 1973 ; re-elected, 1974 ; Chmn. : Cttee. on Petitions, (Lok Sabha), 1971–74 ; Jt. Cttee. on Mines (Amendment) Bill, 1973 ; Mem., Indian Delegation, Intnl. Parl. Union, Abidjan (Ivory Coast), 1973 ; Bucharest (Rumania), 1974 ; Pres., Bihar Pradesh Cong. Cttee., 1968–72 ; Mem., All India Council of Technical Edn., etc. ; Pres., National Fedn. of Indian Railwaymen, since 1969 ; represented Indian labour at the I.L.O., Geneva, 1956 and at its Golden Jubilee, 1969 ; led Indian Parl. Delegation to Thailand, Malaysia, Singapore & Indonesia, 1970. *Address :* Min. of Industry & Civil Supplies, Udyog Bhavan, New Delhi 110011.

SHARMA, Kapil Dev, B.Sc. (Tech.) (B.H.U.), 1944 ; M.Sc. (Tech.), (Sheffield Univ.), 1948 ; Fellow, Socy. of Glass Technology (U.K.), Instt. of Ceramics (U.K.), Scientist; Director, Central Glass & Ceramic Research Instt., Calcutta, since 1967. *b.* July 27, 1920. *Address :* Central Glass & Ceramic Research Institute, Jadavpur, Calcutta 700032.

SHARMA, Shanker Dayal, M.A., LL.M., Ph.D., (Cantab.), Bar-at-Law (Lincoln's Inn) ; D.P.A. (Lond.), Baandeis Fellow ; LL.D. (Honories Causa), Min. for Communications, Govt. of India, since Oct. 10, 1974. *b.* Aug. 19, 1918. Chief Minister, Bhopal State, 1952-56 ; Cabinet Min., M.P., 1956-67 ; Pres., M.P.C.C., 1967-68 ; Gen. Secy., Indian National Congress, 1968-72 ; Pres., A.I.C.C., 1972-74 ; Leader, Indian Delegation to UNESCO Confce. of Asian countries, 1958 ; Mem., Indian Parl. Delegation to Inter-Parl. Union Confce., Paris, 1971. *Address :* 2, Jantar Mantar Rd., New Delhi 110001.

SHETTY, Sunnangal Balakrishna, B.Sc. (Hons.), Chairman & Mg. Dir., Hindustan Shipyard Ltd., since Oct. 1969. *b.* 1915. Indian Police Service, 1938-47 ; Min. of Home Affairs (National Defence), 1947-57 ; Dy. Inspector-General of Police, C.I.D. and subsequently Inspector-General of Police, Madras State, 1957-64 ; Addl. Dir., C.B.I., 1964-68 ; Security Adv. to Min. of Ind. Devpt. & Comp. Affairs, 1968-69 ; was awarded Indian Police Medal, 1950 ; and President's Police & Fire Services' Medal, 1958 for distinguished service ; Hon. A.D.C. to the President of India, 1959-61. *Address :* Hindustan Shipyard Ltd., Gandhigram, Visakhapatnam 530005.

SHINDE, Annasaheb Pandurang, LL.B., Minister of State for Agriculture, Govt. of India, since Mar. 1967. *b.* Jan. 21, 1922 at Nasik. Legal practitioner till May 1962 ; M.P., Lok Sabha, 1962–67 ; Mem., Mg. Cttee. : All India Co-op. Sugar Factories Fedn., New Delhi ; Maharashtra Co-op. Union ; Chmn., Fedn. of Co-op. Sugar Factories, Maharashtra State, 1960–62 ; Parly. Secy., Union Min. of Food & Agr., 1962–63 ; Community Devpt. & Co-op., 1964–65 ; Dy. Min. for Food & Agri., Comm. Devpt. & Co-op., Jan. 1966–Mar. 1967 ; Represented India in World Food Congress held at Hague. *Address :* 1, Motilal Nehru Marg, New Delhi.

SHRIMALI, Dr. Kalu Lal, M.A. (Philosophy and Psychology), Ph.D., Vice-Chancellor, Banaras Hindu Univ., since Nov. 1969. *b.* Dec. 30, 1909. Principal, Vidya Bhawan Teachers' Coll., 1942–54 ; Mem., Secondary Educ. Commn., Indian Govt., 1953 ; Parly. Secy. to the Union Min. for Educ. ; Union Dy. Min. for Educ., 1955–57 and Min. of State in the Union Min. of Educ. and Scientific Research, 1957–58 ; Union Min. of Educ., 1958–63 ; resigned under the Kamaraj Plan, Aug. 1963 ; Vice-Chancellor, Mysore Univ., 1964–69 ; Chmn. : Assn. of Commonwealth Univs., 1969–70 ; Inter-Univ. Bd. of India, 1972–73. *Address :* Banaras Hindu University, Varanasi 221005.

SHUKLA, Vidya Charan, Minister of Inf. & Broadcasting, Govt. of India, since June 28, 1975. *b.* in Raipur, Aug. 2, 1929. M.P. Mahasamund Const. of Raipur Dist., 1957-71 ; re-elected from Raipur, 1971 ; was Mem., Estimates Cttee., 1962 and Stg. Cttee. on Adm. Reforms ; Dy. Min. for Parly. Affairs & Communications, Jan.-Feb. 1966 ; Dy. Min. for Home Affairs, 1966–67 ; Min. of State : for Home, 1967–70 ; Rev. & Exp. in Min. of Finance, 1970–71 ; Defence Production, 1971-74 ; Planning, 1974-75. *Address :* 7, Race Course Rd., New Delhi.

SINGH, Dr. Jogendra, Governor of Rajasthan, since July, 1972. *b.* Oct. 31, 1903. Mem., Central Leg. Assembly, 1934-46 ; was also Chief Whip of Opposition and Mem., Public Accounts Cttee. and Estimates Cttee. ; Mem., Constituent Assembly, 1946-49 ; Prov. Parlt., 1949-52 ; Lok Sabha, 1952-62 ; Rajya Sabha, 1964-71 ; Chmn., Indian Refineries, 1963-64 and Housing Cttee., Rajya Sabha, 1970-71 ; Mem., National Commn. of Agri., 1970–71 ; Hon. Gen. Secy., National Rifle Asscn., 1962–71 and its Pres., since 1974 ; Chmn., Delhi Sikh Guradwara Bd., since 1971 ; Governor, Orissa, Sept. 1971 to June 1972. *Address :* Raj Bhavan, Jaipur.

SINGH, Dr. Karni, B.A. (Hons.), Ph.D., M.P. *b.* Apr. 21, 1924. Elected to Parliament as an independent, 1952 ; re-elected for 2nd, 3rd and 4th terms ; re-elected to Lok Sabha as an independent in the 1971 mid-term elections ; represented India, Clay Pigeon Shooting, Olympic Games, Rome, 1960 ; Oslo World Shooting Championships, 1961 ; captained Indian Shooting Team, 38th World Shooting Championships, Cairo, 1962 ; Tokyo Olympics, 1964 ; World Shooting Championships, Wiesbaden, 1966 ; Bologna, 1967 ; World Olympics, Mexico, 1968 ; Munich, 1972 ; 7th Asian Games at Tehran and won silver medal for Trap and bronze for Skeet, 1974 ; represented on various Govt. of India Ministries ; Mem., Asiatic Socy. of India & Bombay Natural His. Socy. *Address :* Lallgarh Palace, Bikaner.

SINGH, Kewal, B.A. (Hons.), LL.B., I.C.S, Padma Shri, 1955, Foreign Secy., Min. of Ext. Affairs, since Dec. 1972. *b.* June 1, 1915. Joined I.C.S., 1939 ; held important positions in Punjab, 1940-48 ; First Secy., Indian Embassy, Turkey, 1948-49 ; Indian Military Mission, Berlin, 1949-51 ; Charge d' Affairs, Legation of India, Lisbon, 1951-53 ; Consul-Gen. of India, Pondicherry, 1953-54; Chief Commr., State of Pondicherry, Karaikal, Mahe and Yanam, 1954-57 ; Amb. to : Cambodia, 1957-58 ; Sweden, Denmark and Finland, 1959–62 ; Dy. Indian High Commr. in U.K., 1962–65 ; High Commr. to Pakistan, 1965–66 ; Amb. to U.S.S.R. & Mongolian People's Republic, 1966–68 ; Secy., Min. of Ext. Affairs, 1968–70 ; Amb. to West Germany, Dec. 1970–Dec. 1972. *Address :* C/o External Affairs Ministry, New Delhi 110011.

SINGH, Khushwant, LL.B. (Lond.), Barrister-at-Law, Padma Bhushan (1974), Editor, *Illustrated Weekly of India*, since 1969. *b.* Feb. 2, 1915. Practising Lawyer, High Court, Lahore, 1939-47 ; Indian Foreign Service, London & Ottawa, 1947-51 ; UNESCO, 1954-56 ; Visiting Lecturer, Oxford, Rochester, Hawaii, Princeton, Swarthmore ; Author of several books of fiction and "History of the Sikhs." *Address :* "Illustrated Weekly of India", The Times of India Offices, Bombay 400001.

SINGH, Lallan Prasad, M.A., I.C.S. (Retd.), Governor of Assam, Manipur, Meghalaya, Nagaland & Tripura, since Sept. 1973. *b.* July 1, 1912. Chief Secretary, Bihar, 1948-56 ; O.S.D. and Dir., Dte. of Manpower, Min. of Home Affairs, Govt. of India ; Mem-Secy., Second Pay Commission, 1956-59 ; Fellow, Centre, of Intnl. Affairs, Harvard Univ., 1959-60 ; Home Secy., 1964-70 ; Amb. to Nepal, June 1971 — Sept. 1973 ; Mem., Governing Bodies of Indian Instt. of Applied Manpower Research ; Indian Instt. of Management, Ahmedabad and Indian Council of Social Science Research. *Address :* Raj Bhavan, Shillong 793001 (Meghalaya).

SINGH, Dr. Nagendra, M.A., LL.D. (Cantab), D.Sc. (Law) (Moscow), D.C.L. (Delhi), M.A., B.Litt., LL.D. (Dublin), D.Litt. (Bihar), D.Phil. (Cal.), Bar-at-Law, I.C.S., i.d.c., J.P., Judge, Intnl. Court of Justice, The Hague since Oct. 30, 1972. Hon. Master of the Bench of Gray's Inn, London (1973). Was Secy. to the President of India, 1966–72 ; and Constitutional Adv. to the Govt. of Bhutan, 1970–72 ; joined I.C.S., 1938 ; Mem., Constituent Assembly of India, 1949 ; worked in the Ministries of Defence, I. & B., States (Home) and Transport, D.G.S. and Secy., Transport Min. (1956–66) ; Mem. : Intnl. : Law Commn. (1967–73) ; Permanent Court of Arbitration, The Hague (1967) ; Chmn., UNCITRAL 4th Session, Geneva (1971) ; Pres. : IMCO Assembly (1963–65) ; 55th I.L.O. Maritime Session, 1970 ; Afro-Asian Legal Cttee. ; Nehru Professor, Geneva Univ. ; Shri Panch Tribhuban Prof., Tribhuban Univ., Nepal ; Visiting Prof., Univs. of Madras, Bombay, Delhi, Banaras and Udaipur and Jawaharlal Nehru Univ. *Address :* 6, Akbar Rd., New Delhi (India) ; International Court of Justice, Peace Palace, The Hague (Netherlands).

SINGH, Dr. Ram Subhag, Shastri (Banaras), M.A. (Missouri), Ph.D. in Journalism (Missouri), Politician. *b.* July 7, 1917. Prov. Parlt., 1950–52 ; M.P., Lok Sabha, 1952–70 ; Mem. : Exec. Cttee. of the Cong. Party in Parlt., 1954–70 ; its Secy., 1955–62 ; Cong. Wkg. Cttee., since Jan. 1961 ; Cong. Central Election Cttee., since May, 1966 ; Union Min. of State for : Agr., 1962–64 ; Railways, 1964–67 ; Min. for Parly. Affairs & Communications, 1967–69 ; Min. of Rlys., Feb.–Nov., 1969 ; leader of Opposition in Lok Sabha, Dec. 1969–Dec. 1970. *Address* . Khajuria, Arrah (Bihar).

SINGH, Surendra Pal, B.A. (Hons.) (History), Min. of State for Tourism & Civil Aviation, Govt. of India, since Oct. 1974. *b.* May 17, 1917. Commissioned Officer in the Indian Armoured Corp., 1940–43 ; M.P., Lok Sabha, since 1962 ; Mem., Public Accounts Cttee., 1965-66 ; Dy. Min. for Ext. Affairs, Mar. 1967–Feb. 1973 ; Min. of State for Extl. Affairs, 1973–74. *Address :* Unchagaon Estate, Bulandshahr Dist. (U.P.) ; External Affairs Ministry, New Delhi.

SINGH, Sardar Swaran, B.Sc. (Hons.), M.Sc. (Physics) (Lahore), LL.B., Min. for Defence, Govt. of India, since Oct. 11, 1974. *b.* Aug. 19, 1907. Elected M.L.A., Punjab, 1946 ; Min. for Devpt., Food & Civil Supplies, Punjab ; Min. for : Home, Gen. Admn., Revenue, Irrigation, Electricity, Punjab, 1947 ; Capital Project, Electricity, April-May, 1952 ; Works, Housing, Supply, Govt. of India, 1952–57 ; elected to the Lok Sabha ; Min. for : Steel, Mines and Fuel, 1957–62 ; Railways, 1962 ; Food & Agr., 1963–64 ; Industry & Supply, 1964 ; Extl. Affairs, 1964–66 and 1970–74 ; Defence Min., 1966–70 ; represented India in the boundary dispute talks with Pakistan, 1960 ; Talks on Canal Water Treaty, 1960, 1962 & 1963 with Pakistan and also talks on Kashmir and related matters ; assisted Prime Minister Shastri in Taskhent talks with Pres. Ayub Khan of Pak., Jan. 1966 ; assisted Prime Min. Smt. Indira Gandhi in the Indo-Pak Summit talks at Simla, 1972 ; represented India at Commonwealth Prime Ministers' Cfce., Singapore, Jan. 1971 and Ottawa, Aug. 1973 ; led Indian delegation to U.N. Gen. Assembly ten times between 1964–74 and four times to the ECOSOC sessions, 1954, '55, '70 & '74 ; re-elected to Lok Sabha, Mar. 1971. *Address :* 7, Hastings Rd., New Delhi.

SINGHANIA, Hari Shankar, B.Sc. ; Industrialist. *b.* June 20, 1933. Dir., J. K. Orgn. ; Chmn., J. K. Ind. Ltd., J. K. Steel & Ind. Ltd., Ganges Mfg. Co. Ltd., J. K. Business Machines Ltd., etc.; Mg. Dir., Straw Products Ltd.; Mem., F.I.C.C.I., All India Orgn. of Employers, Assn. of Indian Engg. Ind., Adv. Cttee. (Jute) of the Indl. Finance Corpn. of India, Devpt. Council for Paper, Pulp & Allied Ind.; Ex-Chmn., Indian Jute Mills Assn., Indian Paper Mills Assn., etc. *Address :* J. K. Orgn., Nehru House, 4, Bahadur Shah Zaffar Mrg., New Delhi 110001.

SINGHANIA, Lakshmipat, Industrialist and Vice-Pres., J. K. Organisation. *b.* 1910. Dir.-in-Charge : Aluminium Corpn. of India Ltd. ; Straw Products Ltd. ; Dir. : J. K. Cotton Spinning & Weaving Mills Co. Ltd. ; Bengal & Assam Investors Ltd. ; J. K. Iron & Steel Co. Ltd ; Intnl. Cardiology Foundation, etc. ; one of the Indian Underwriting members, Lloyd's Socy. of London ; Mem., Board of Governors, Indian Instt. of Social Welfare & Business Management ; Vice-Pres., All India Heart Foundation ; Ex-President : F.I.C.C. & I. ; Indian National Cttee. of the I.C.C. ; All India Orgn. of Industrial Employers ; Bharat Chamber of Commerce ; Merchants' Chamber of U.P. *Address :* (*Office*) 7, Council House St., Calcutta 700001 ; (*Resi.*) J.K. House, 12, Alipore Rd., Calcutta 700027.

SINGHANIA, Sir Padampat, LL.D. Industrialist and Businessman. *b.* 1905. Pres. J. K. Orgn. ; founded Merchants' Chamber, U.P., 1932 ; ex-Pres., F.I.C.C. & I. ; Vice Pres., Seva Samiti, Allahabad ; was Mem. : U.P. Leg. Assembly ; Constituent Assembly ; First General Council of U.P. Assn. for Blind ; Indian Instt. of Intnl. Affairs ; Heavy Industries Adv. Cttee. ; Ex.-Chmn., Board of Governors, Indian Instt. of Technology ; Northern Regional Board of Practical Trg. for Engg. Graduates and Diploma holders ; established : J. K. Instt. of Applied Physics and Technology, Allahabad ; J. K. Instt. of Sociology and Human Relations, Lucknow; J. K. Instt. of Radiology and Cancer Research Kanpur ; Lakshmipat Singhania Instt. of Cardiology, Kanpur, Jaykaylon Women's Hospitals, Kota and Jaipur and Kailashpat Singhania Instt. of Medicines, Kanpur. etc. *Address : Office :* Kamla Tower, Kanpur ; *Res. :* " Ganga Kutir ", Cantonment, Kanpur.

SINHA OF RAIPUR, Rt. Hon. Lord Sudhindro Pranna, Chmn., Macneill & Barry Group of Companies, since Feb. 70. *b.* Oct. 29, 1920. Dir., 1964 & Mg. Dir., '68 ; Vice-Chmn., Indian Tea Assocn., 1961 & 1962 ; Chmn., 1963 ; Mem., Tea Board, '63-64 ; Vice-Chmn., Tea Research Assocn., 1964 ; Cttee. Mem., Bengal Chamber of Commerce & Ind. ; Governor, Indian Instt. of Social Welfare & Business Management. *Address :* 22, Camac St., Calcutta 700016.

SINHA, Satya Narayan, Governor of Madhya Pradesh, since Mar. 1971. *b.* July 9, 1900, at Darbhanga (Bihar). Mem. : Bihar Legislative Assembly, 1926–30 ; Indian Constituent Assembly ; was Chief Whip, Congress Party in the Central Assembly and Constituent Assembly ; M.P., Lok Sabha, since 1952 ; Min. of : Parly. Affairs, 1962–64 ; I. & B., 1963–64 ; Communications and Parly. Affairs, 1964–67 ; appointed leader of the Lok Sabha, Feb. 1966 ; Min. without Portfolio, March–Nov. 1967 ; Min. for Health, Family Plng. & Urban Devpt., 1967–69 ; Min. of Information, Broadcasting and Communications Feb. 1969–Mar. 1971. *Address :* Raj Bhavan, Bhopal.

SIRCAR, Prof. Sourindramohan, B.Sc. (Hon.), M.Sc. (Botany), Ph.D. (Lond.), Fellow, I.N.S.A. ; Hon. Fellow, German Academy of Natural Scientists, Leopoldina. Dir., Bose Instt., Calcutta, since 1967. *b.* Mar. 1908. Head, Dept. of Biology, Dacca Univ., 1946-47 ; Prof., Agri. Botany, Central Coll. of Agri., 1949-51 ; Prof. of Botany, Calcutta Univ., 1960-67 ; specialised in Plant Physiology relating to Vernalisation, Photoperiodiam, Mineral nutrition in seed germination and auxin contents of the rice plant ; awarded Birbal Sahni Medal (1969) ; Rafi Ahmed Kidwai Prize (1974) ; Chmn., Plant Physiology & Biochemistry, ICAR., New Delhi ; Gen. Secy., Indian Sci. Congress Assn. *Address :* Bose Instt., 93/1, Acharya Prafulla Chandra Rd., Calcutta 700009.

SIVAJI GANESAN (See under GANESAN, Sivaji).

SIVASAILAM, A., B.Com., Businessman ; Chairman : Amalgamations Private Ltd., Madras ; Simpson & Group Companies and Chmn. and Mg. Dir., Tractors and Farm Equipment Ltd., Madras. *b.* Aug. 24, 1934. Dir. : The Tamil Nadu Ind. Investment Corpn. Ltd., Madras ; Pres., Assn. of Indian Automobile Manufrs., Bombay ; Mem. : Several State and Central Govt. Boards, Sheriff of Madras, 1969–70. *Address :* 202, Mount Rd., Madras 600002.

SRINIVASAN, Mysore, Dr. Engg., F.I.E. (Ind.), F.A.S.C.E., F.M.I.R.T., M.B.I.M., I.R.S.E., Chmn. & Mg. Dir., Wagon India Pvt. Ltd. ; Pres., Institution of Permanent Way Engineers (India). *b.* March 24, 1916. *Address :* 10B, Atma Ram House, 1, Tolstoy Marg, New Delhi 110001.

SRIVASTAVA, Chandrika Prasad, M.A., LL.B., I.A.S. (Retd.), Padma Bhushan (1972), Secretary-Genl., Inter-Govtl. Maritime Consultative Orgn. (U.N. Orgn.), London. Ex-Chmn. & Mg. Dir. : Shipping Corpn. of India Ltd. ; Mogul Line Ltd. ; Jayanti Shipping Co. ; Pres., Indian Nat. Shipowners' Assn. 1971-1973. *b.* July 8, 1920. Dy. Secy. to Govt. of India, 1957–58 ; Senior Dy. Dir. Gen.

of Shipping—1959–60; Mg. Dir., Shipping Corpn. of India Ltd., 1961–64; Jt. Secy. to the Prime Minister of India, 1964–66; duly accredited representative to Maritime Cfces. at U.S.A., Geneva, Sri Lanka, London; Alternate Rep. UNCTAD II (IV Cttee.), New Delhi; Chmn., UNCTAD III (IV Cttee. on shipping & other invisibles); Pres., U.N. Cfce. of Plenipotentiaries on a Code of Conduct for Line Cfces., Geneva, 1972-1973. *Address :* 101–104, Piccadilly, London, WIVOAE.

SRIVASTAVA, J. K., B.Sc. Tech. (Manch.), A.M. C.T., A.T.I., Ex-M.L.A., Chmn., Sir J. P. Srivastava Group of Industries. *b.* Nov. 13, 1913. Pres., Upper India Chamber of Commerce 1957–60; Vice-Pres., Employers' Fedn. of India; Mem., State Plng. Board, U.P.; Export Promotion Adv. Council, Govt. of India; Indian Cotton Mills Fedn.; Exec. Cttee., All India Board of Tech. Studies in Management; U.P. Leg. Assembly, 1945–52; Cttee., Cotton Adv. Board, Govt. of India and numerous Govt. and Pvt. bodies; Chmn.: Northern Regional Cttee., Employers' Assn. of India; Governing Council, Northern India Textiles Research Assn. *Address :* Kailash, Nawabganj, Kanpur.

SUBBULAKSHMI, Smt. Madurai Shanmugavadivu, Padma Bhushan (1954); Ramon Magsaysay Award (1974); Padma Vibhushan (1975); President's Award for Karnatic Music, 1956. *b.* Sept. 1916. Gave solo performance and became a leading musician before 18; her part as heroine in the Hindi film "Meera" won for her all India popularity; has given more than a 100 benefit recitals in aid of many national, social and religious causes; representated, Karnatic Music in the Edinburgh Intnl. Festival of Arts, 1963; also gave concerts in London, Frankfurt, Geneva and Cairo; special concert before U.N. Assembly on U.N. Day (Oct. 23, 1966) on invitation; 7-week concert tour in the U.S.A., Oct.–Nov. 1966; had private audience with Pope, Dec. 3, 1966; first woman musician to be elected Pres. of the Madras Music Academy Cfce., 1968; recipient of Tamil Isai Sangha title 'Isai Perarignar', 1970; Conferred on her 'Doctor of Letters' by Shri Venkateswara Univ., 1971 and by Delhi Univ., 1973. *Address :* "Kalki Buildings", Chetput, Madras 600031.

SUBRAMANIAM, C., B.A., B.L. (Madras), Minister of Finance Govt. of India, since Oct. 1974. *b.* Jan. 30, 1910 at Pollachi, Coimbatore Dist. Started practice in Coimbatore, 1936; was President, Coimbatore D.C.C.; Mem.: P.C.C., A.I.C.C.; Wkg. Cttee., Tamilnad Cong.; Mem., Constituent Assembly, 1946–52; M.L.A., Madras, 1952–62; Fin., Educ. and Law Min., Madras till 1962; M.P., Lok Sabha 1962–67; Union Min. for: Steel & Heavy Industries, 1962–63; Steel, Mines & Heavy Engg., 1963–64; Food and Agr., 1964–66; Food, Agr., Comm. Devpt. and Co.-op., 1966–67; Chmn., Aeronautics Cttee., 1967–69; Interim Pres., Indian Nat. Cong., July–Dec. 1969; Chmn., National Commn. on Agriculture 1970–71; Min. for Plng. & Dy. Chmn., Plng. Commn. April 24, 1971–Juln 1972; Min. for Ind. Devpt. & Sec. and Technology, July 1972–Oct. 1974; held addl. charge of Min. of Agri., July–Oct. 1974. *Address :* River View, Adyar, Madras 600025; 5, Sonehri Bagh Rd., New Delhi.

SUKHADIA, Mohanlal, L.E.E. (Bombay), Governor, Karnataka State, since Feb. 1, 1972. *b.* July 31, 1916. Min. for Civil Supplies, P.W.D., Relief & Rehab., Mewar State; was Devpt. Min., Rajasthan; M.L.A., from Udaipur City constituency; Min. for Civil Supplies and Agr. incl. Irrigation, Rajasthan, 1951–52; Min. for Agr., Revenue (except Forests and Co-op.), and Famine Relief, 1952–54; Chief Min., Rajasthan, 1954–71; awarded Doctorate by Udaipur Univ.; is responsible for the land reforms and Panchayati Raj in the State. *Address :* Raj Bhavan, Bangalore.

SUMATI MORARJEE, Smt., Padma Vibhushan (1971). Ex-President, Indian National Shipowners' Assn. *b.* March 13, 1909. Exec. Dir.: Scindia Steam Navigation Co., Ltd.; Chmn.: Kamal Shipping Co., Ltd.; Eastern Bunkerers Ltd.; Nat. Life Preservation Socy.; Vice-Chmn., Maritime Law Assn. of India; Gen. Transport Cttee. of I.C.C.; Vice-Pres., Intnl. Shipping Fedn.; Mg. Trustee, Central Relief Fund; Vice-Pres., Nathadwara Temple Board. *Address :* Palm Bun, Gandhigram, Juhu Bombay 400054.

SUNDARAM, K., Industrialist; Mg. Dir., Lakshmi Mills Co. Ltd., Coimbatore Cotton Mills Ltd., Coimbatore; *b.* May 29, 1914. Dir., S. India Viscose Ltd., Lakshmi Machine Works Ltd., etc.; Chmn., India Cotton Mills' Fedn., Bombay; Pres., Indian Chamber of Commerce & Via-Chmn., SITRA., Coimbatore; Ex-Secy. & Ex-Chmn., S.I. Millowners' Assn.; Mg. Trustee, Kuppuswamy Naidu Charity Trust & Memorial Hosp.; Pres., Bhavan's Kendra, Coimbatore, elected to Rajya Sabha on Swatantra ticket, 1966-72. *Address :* Lakshmi Mills Co. Ltd., Pappanaickenpalayam, Coimbatore 641037.

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VISSANJI, Pratapsinh Mathuradas, Businessman. *b.* March 19, 1916. Dir., Western India Match Co. Ltd.; A.C.C. Ltd.; Tata Sons Pvt. Ltd., Wallace Bros. City Investment Ltd., London; Wallace Bros. Trdg. & Indl. Ltd., London; Ocean Leila Ltd., Hong Kong; Bombay Burmah Trading Corpn. Ltd.; Great Eastern Shipping Co., Ltd.; Khatau Makanji Spg. & Wvg. Mills Ltd.; Wallace Flour Mills Co. Ltd.; Bombay Dyeing & Manufg. Co. Ltd.; Tata Chemicals Ltd.; Tata Hydro-Electric & Power Supply Co. Ltd., etc. *Address: Residence:* Sir Mathuradas Vissanji Road, Andheri, Bombay; *Office:* 9, Wallace St., Fort, Bombay 400001.

VISWANATHAN, Kambanthodath Kunhan, B.A., B.L., Governor of Gujarat, since Apr. 4, '73. *b.* Nov. 4, 1914. Participated in Cochin State politics, 1946-48; elected to Leg. Council, '48; Travancore-Cochin State Assembly, '49; Kerala State Assembly, '57 & '60; Ex-Pres. of various trade unions; Ex-Chmn., State Evaluation Cttee. of Programmes for Scheduled Castes & Tribes; Ex-mem., High Power Cttee. on Land Reforms, State Plng. Advisory Ctee., etc.; Secy., Pradesh Congress Leg. Party, 1957-64; Gen. Secy., K.P.C.C., 1966-69; Editor, *The Republic* (Malayalam Weekly), 1967-69; Pres., K.P. C.C., '70 & '72. *Address:* Raj Bhavan, Ahmedabad 380004.

VYJAYANTHIMALA, Smt. Bali, Padma Shri (1968), Artiste. *b.* Aug. 13, 1933. Acted in films till '69 & received Best Actress Awards for "Sadhana", "Ganga Jamuna' & 'Sangam"; exponent of Bharata Natyam & started 'Natyalaya' — academy of classical Bharata Natya & Music — Bombay, '67; danced at the U.N. Gen. Assembly, Dec. '69; has given performances for charitable causes both in India & abroad. *Address:* 131, Ashoka Apartments, Napean Sea Rd., Bombay 400006.

WADIA, Neville Ness, Chmn.: Nowrosjee Wadia & Sons (Private) Ltd.; Bombay Dyeing & Mfg. Co. Ltd.; National Peroxide Ltd.; Sturdia Chemicals Ltd.; Bombay Ring Travellers Co. Ltd.; Gherzi Eastern Ltd.; Citurga Biochemicals Ltd.; Neville Wadia Pvt. Ltd. *b.* Aug. 22, 1911. *Address:* C/o Neville Wadia Pvt. Ltd.; *Office:* Neville House, Ballard Estate, Bombay 400038.

WADIA, Smt. Sophia, Padma Shri (1961), Editor, *The Aryan Path*, 46th Vol., and *The Indian P.E.N.*, 41st Vol., Bombay. *b.* Sept. 13, 1901. Associate of the United Lodge of Theosophists; Lecturer, Founder-Organiser of the P.E.N. All-India Centre; a Founder and Pres. of the Indian Instt. of World Culture, Bangalore; Pres. & Mg. Trustee, Asian Book Trust; Pres., Balkan-Ji-Bari; Vice-Pres., All India Animal Welfare Assn.; Vice-Chmn., Buddha Jayanti Charities Socy. and worker in women's educl., social and cultural movements. *Address:* 40, New Marine Lines, Bombay 400020.

WADUD KHAN, Mohammed Abdul, Chmn., Steel Authority of India Ltd., Holding Co. for steel and Secy., Deptt. of Steel in the Min. of Steel & Mines, Govt. of India. *b.* Jan. 19, 1921. Was Sr. Dir., Tata Ind. Ltd. and Tata Sons Ltd. and Mg. Dir. of Tata Oil Mills Ltd. *Address:* (*Off.*)—Hindustan Times House, Kasturba Gandhi Mrg., New Delhi-110001. (*Res.*)—1, Safdarjung Lane, New Delhi 110011.

WAGLE, Nityanand Mangesh, M.A., M.Sc. (Econ.), Padma Bhushan (1970), Ex-Mg. Dir., Greaves Cotton & Co. Ltd., *b.* Aug. 16, 1914. Entered I.C.S., 1938; served in the Dists. of Gujarat, 1938–42, and in the Sectt. at Bombay, 1942–47; retired from the I.C.S., 1947; Asstt. Manager, Greaves Cotton & Co. Ltd., 1947-50; Dir., 1950–57; Chmn.: Crompton Greaves Ltd.; State Ind. and Investment Corpn. of Maharashtra; City & Ind. Devpt. Corpn. of Maharashtra; Paville Fashions Pvt. Ltd. etc.; Dir.: Bombay Dyeing & Manufg. Co. Ltd., Tata Hydro Electric Power Supply Co. Ltd.; Associated Bearing Co.; David Brown Greaves Ltd.; Ind. Credit and Investment Corpn. of India Ltd. and other companies; Pres., Bombay Chamber of Commerce and Industry, 1961 & 1968; Assoc. Chambers of Commerce and Industry of India, 1968–69; Vice-Pres. and Chmn., Western Region, Employers' Fedn. of India. *Address:* 17A, Carmichael Rd., Bombay 400026.

WALKER, H. E. Sir (Charles) Michael, KCMG (1963), CMG (1960), British High Commissioner to India, since Feb. 1974. *b.* Nov. 22, 1916. HM Forces, 1939-46; Dominions Office, 1947; First Secy., Washington, 1949; Counsellor, Calcutta & Delhi, 1952-55; Head, Establishment Dept., Commonwealth Relations Office, 1955; Imperial Defence Coll., 1958; Dir. of Establishment & Orgn., Commonwealth Relations Office, 1959; High Commr. to Ceylon, 1962 & concurrently Amb. to Maldives, 1965; High Commr. to Malaysia, 1966; Secy., Overseas Devpt. Admn., 1971-73. *Adress:* British High Commission, Shantipath, Chanakyapuri, New Delhi 110021.

WANCHOO, Niranjan Nath, M.A. (Punjab), O.B.E. (1945), I.C.S. (Retd.), Governor, Kerala State since April, 1973. *b.* May 1, 1910. Joined the I.C.S., 1934; served in Bihar and Orissa; later in the Commerce and Food Deptts. of the Govt. of India; Imperial Defence Coll., London, 1947; D. G. of Ordnance Factories, 1948; Jt. Secy., Min. of Defence & Controller-Gen. of Defence Production, 1948–57; Member, Univ. Grants Commn., 1958–1961; Secy., Min. of Fin. (Deptt. of Expenditure), 1958–61; Iron & Steel, July '61–Aug. '66; Ind. Devpt., 1966–70 (Chmn., Bokaro Steel Ltd.), 1965–70; bureau of Ind. Costs & Prices, Min. of Ind. Devpt., Govt. of India, April 1970–Jan. 1972; National Productivity Council of

India, 1967–72 ; Mem., Plg. Bd., Govt. of Madhya Pradesh, Dec. 1972–Feb. 1973. *Address :* Raj Bhavan, Trivandrum.

WANKHEDE, Sheshrao Krishnarao, B.A., Bar-at-Law, Speaker, Leg. Assembly, Maharashtra, since March 1972. *b.* Sept. 24, 1914. Chmn., Nagpur Dist. Council, 1938–48 ; Mem. : Nagpur Univ. Exec. Council, 1947 ; Mayor of Nagpur Corpn. for three terms ; Indian rep. at the F.A.O. Cfce., 1953 ; Mem., Indian Central Cotton Cttee. for 12 years ; Ex-Vice-Chmn., M.P. Electricity Council ; Dy. Speaker, M.P. Leg. Assembly, 1952 ; was Dy. Speaker in enlarged Bombay State's first Assembly ; Min. for Plng., Devpt., Electricity and Industries, Bombay State, 1957–60 ; Min. for Fin., Maharashtra, 1960–62 ; Min. for Industries, Law & Judiciary, 1962–63 ; Minister for Finance, Dec. '63–Feb. '67 ; Min. for Finance, Law, Judiciary and Small Savings, Mar. 1967–Mar. 1972. *Address :* Council Hall, Bombay 400039 ; *Res. :* Puratan, Ridge Rd., Malabar Hill, Bombay 400006.

WARNER, Gale Timothy, Graduate, Univ. of Minnesota & American Graduate School of International Management ; Mg. Director, Firestone Tyre & Rubber Co. of India P. Ltd., since Sept. 1, '72. *b.* April 12, 1921. Joined Export Deptt. of Firestone Internl. Co., Akron, Ohio, June '48 ; Sales Asst., Firestone-India, 1951-53 ; Dist. Manager, Firestone-India, Calcutta, 1953-Sept. '56 ; Manager, Tyres Sales at Central Office, Bombay, Sept, '56-April '57 ; Sales Manager, Firestone-India, April '57–July '59 ; Sales Director, Aug. 1, '59–Sept. 30, '72. *Address : Office :* Hay Bunder Rd., Sewri, Bombay 400033 ; *Residence :* B-29, "Mayfair Gardens", Little Gibbs Rd., Bombay 400006.

WARRIER, P. Krishnan Kutty, Managing Trustee, Arya Vaidya Sala, Kottakkal, since 1953. *b.* 1921 at Kottakkal. Has been with the Arya Vaidya Sala since 1947 ; is its Addl. Chief Physician ; Mem., Exec. Cttee., All India Ayurvedic Congress ; Central Council of Indian Medicine ; Ayurvedic Adv. Bd., Kerala ; Vice-Pres., Kerala Ayurveda Mandalam. *Address :* Arya Vaidya Sala, Kottakkal (Kerala State).

ZAIDI, Dr. Sibte Hasan, M.B.B.S., Ph.D. (Lond.), D.C.P. (Lond.), F.R.C. Path. (Lond.), F.N.A., F.N.A. Sci. ; Fellow, Royal Coll. of Pathologists, London; National Academy of Scs., India ; Indian National Sci. Academy, New Delhi ; Founder-Dir., Industrial Toxicology Research Centre, Lucknow, since '65. *b.* April 15, 1918. Asstt. Dir. & Head, Divn. of Exptl. Medicine, Central Drug Research Instt., Lucknow, 1955–63 ; its Dy. Dir., '63 ; Dir., Indian Instt. of Biochemistry & Exptl. Medicine, Calcutta, '64 ; Mem., Pathological Socy. of G. Britain & Ireland ; Indian Assn. of Pathologists ; received S. S. Bhatnagar Award, '63. *Address :* Industrial Toxicology Research Centre, P. Box No. 80, Lucknow 226001.

ZAIL SINGH, Giani, Chief Minister, Punjab, since March 17, '72. *b.* May 5, 1916. Served State Praja Mandal & Indian National Congress ; Revenue Minister, PEPSU, 1948-49 ; PWD., Agri. Minister, 1951-52 ; Convenor, Bharat Sewak Samaj, 1952-54 ; Pres., PEPSU PCC., 1955-56 ; Vice-Pres., Punjab PCC., 1956-58 ; Mem., Rajya Sabha, 1956-62 ; M.L.A. (Faridkot), '62 ; Min. in Kairon's Cabinet ; Pres., P.C.C., 1966-72 ; M.L.A. (Anandpur), '72. *Address :* Chandigarh.

ZAKARIA, Dr. Rafiq, M.A., Ph.D. (London), Bar-at-Law, Minister for Urban Devpt. New Townships, Protocol, Tourism and Aukaf, Maharashtra, since Nov. 9, 1974. *b.* April 5, 1920. Political correspdt. on Indian affairs for the 'Observer' (London), 1947–48 ; Pres., London Majlis, 1945–47 ; Chmn., Fedn. of Indian Students' Socy. in British Isles and Europe, 1947 ; Pres. : Indo-Arab Socy.; Maharashtra Coll. of Arts & Sc. ; Chmn. : Indian Unity Centre ; Founder and Pres., Maulana Azad Coll. of Arts, Sc. & Commerce, Aurangabad and Marathwada College of Education ; nominated M.L.C., Maharashtra, June, 1960 ; Cong. Chief Whip to the Maharashtra Leg. Council, July 1960 ; M.L.A., Maharashtra, from Aurangabad constituency, 1962, 1967 & 1972 ; Mem. : Exec. Cttee., M.P.C.C. and A.I.C.C. ; Dy. Min. for Bldgs. & Communications, Maharashtra, 1962–64 ; Min. for : Urban Devpt., 1964–67 ; Public Health and Aukaf, 1967–72 ; Public Health, Urban Devpt. and Aukaf, 1972–74, Chancellor, Jamia Urdu, Aligarh, since Feb. 1973 ; is advocate, Bombay High Court. *Address :* "Bylestone," 8-B, Carmichael Rd., Bombay 400026.

ZUTSHI, Moti Lal, B.A. (Gold Medalist), Chmn. & Mg. Dir., Hindustan Paper Corpn. Ltd., New Delhi, since Jan. '74. *b.* July 11, 1918. Was Executive Vice-Pres., Ballarpur Paper & Straw Board Mills & Pres., Bharat Starch & Chemicals Ltd. ; Dir., Indian City Properties Ltd., Shri Sadul Textiles Ltd., etc. ; Mem. & several times Chmn. : Devpt. Council for Paper, Pulp & Allied Ind. ; Indian Paper Makers Assn. ; Mem., Jt. Cttee. of Paper Ind. since inception & its Chmn. & Vice-Chmn. several times. *Address* ; Hindustan Paper Corpn. Ltd., D-44, N.D.S.E., Part II, New Delhi 110049.

LATE PARTICULARS

1975-76 Annual Plan: The annual plan for 1975–76 which aims at promoting growth with stability lays stress on further mobilisation of resources and strict fiscal discipline. The plan envisages an outlay of Rs. 59,780 million.

The broad sectoral allocations in the annual plan (1975–76), with last years figures in brackets are as follows (in rupees million): Agriculture and allied programmes 6,914·1 (6,384·2), irrigation and flood control 4,682·2 (3,8532), power 11,015·8 (7,665). villages and small industries 738·9 (688·1), industry and minerals 16,440·2 (10,932·8), transport and communications 10,404·4 (10,266·1), social services 7,828·2 (6,990·6), and others 1,757·1 (1,756·3). The total outlay is thus increased from Rs. 48,436·8 million in 1974–75 to Rs. 59,780·9 million in 1975–76 — a step-up of 23 per cent.

National Income: The rate of growth of national income in 1974–75, the first year of the fifth plan, was tentatively put "around two per cent."—against the plan target of 5 to 6 per cent in the annual growth rate.

According to the annual plan 1975–76 document national income in 1973–74, the last year of the fourth plan, increased by 3·1 per cent and the overall growth rate in the economy in the fourth plan period was around three per cent per annum.

Government of India Personnel

Hitendra Singh Vahali, **Dir., Min. of External Affairs,** is now Chief of Protocol in the rank of Jt. Secretary.

Lt. Gen. K. S. Garewal, Signal Officer-in-Charge, Army Hq. is now **Chairman, Coal Mines Authority Ltd.**

R. D. Pradhan has taken over as **Dir. of Bombay Airport.**

Mr. K. R. Puri, Chairman of L. I. C., since 1972 was appointed *Governer of the Reserve Bank of India.*

State Govt. Personnel

Arunachal Pradesh: A five member Ministry with Prem Khandu Thungon as Chief Minister and Tomo Riba, Sobeing Tayeng, Tadar Tang and Wangpha Lowang as Ministers was installed on 15-8-75. The State will have its first full fledged 23-member Legislative Assembly and Council of Ministers. Speaker: Nokmey Numati; Dy. Speaker: Padi YUBE.

Maharashtra: Binod U. Rao is **Press Adviser to the Govt. for Greater Bombay.**

Manipur: Moirangthem Meghachandra (CPI) has joined the Ministry as a **Cabinet Minister.**

Rajasthan High Court: *Addl. Judges:* Mangi Lal Jain and Purushottam Das Kudal.

Allahabad High Court: *New Judges:* Dwarkanath Jha, Amitav Banerji, Brahmanath Katju, Krishna Chandra Agarwal, Girwar D. Srivastava, Jagdish Prasad Chaturvedi, Mathura Prasad Saxena.

Indian Diplomatic Representatives Abroad

V. Siddharthacharry, **Amb. to Czechoslovakia,** is now **High Commr. to Singapore.**

World around us

A Military backed Government headed by Mr. Khondkar Mushtaque Ahmed assumed office and proclaimed Martial Law in BANGLA DESH after a coup in which President Mujibur Rehman and others were killed, on 15-8-75.

SIKKIM

Capital: Gangtok; **Population:** 15,000.

Area of State: 7,298 sq. kms. **Population of State:** 208,609 (1971 Census).

Districts: Four — Singtam, Gyalzing, Namchi, Mangan.

AGRICULTURE: Main crops are cardamom, mandarin oranges, apples, potatoes, rice, maize, millet, ginger and soyabean.

Sikkim is the world's largest supplier of cardamom, about 200 tonnes a year. A tea plantation has just been started.

Forests: Forests occupy about 30 per cent of the land area and the potential for a timber and wood pulp industry is being explored.

Electricity: There are 4 hydro-electric power stations. Possibilities of exploiting the hydel resources are being explored.

INDUSTRIES: There is a distillery at Rangpo and a food preservation factory at Singtam. Copper and graphite are being mined and resources of coal, lime and other minerals are being explored.

There is a tannery at Majitar and a watch factory may be set up in collaboration with Hindustan Machine Tools Ltd. A jewel bearing factory is under construction.

Handicrafts: Local crafts include carpet weaving, handmade paper, wood carving and silver work.

EDUCATION: The state has 164 primary schools and 27 secondary schools, providing education to about 20,000 children. There is also a primary teachers training institute. A University college will begin functioning in 1976. Education is free up to the sixth standard.

PUBLIC HEALTH: There are 5 hospitals with 292 beds. 26 dispensaries; 4 sub-dispensaries; one maternity ward; one Chest Clinic and 2 T.B. Blocks. Medical and hospital treatment is free. There are 20 doctors.

COMMUNICATIONS: There are 1,500 kms. of metalled roads and 48 major bridges. Public transport is nationalised. The nearest airport is at Bagdogra (121 kms.) and the nearest railway station is Siliguri (112 kms.)

GENERAL: Formerly a princely State in the eastern Himalayas and a Protectorate of India, Sikkim opted by a referendum on April 14, 1975 to join the Indian Union as its 22nd State. The Lok Sabha passed the Constitution Amendment Bill for the same on April 23, 1975.

Religion: Mainly Mahayana Buddhism and Hinduism. There are a few Christians and Muslims.

Rivers: The main river is the Tista, which is formed by the confluence of the Lachen and the Lachung in the north of Sikkim.

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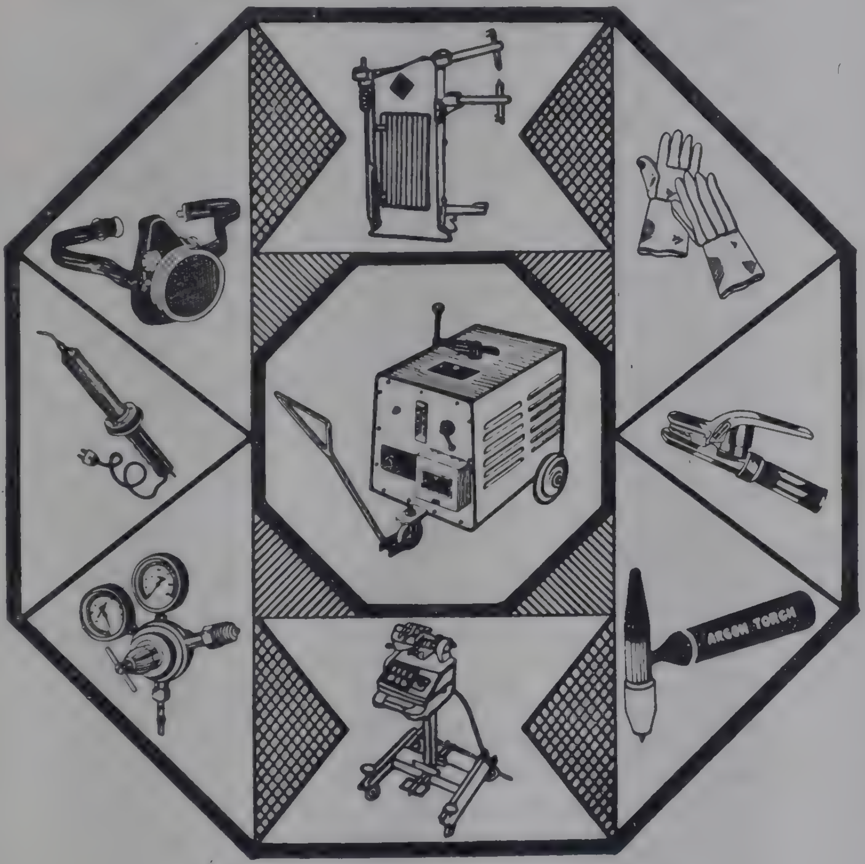

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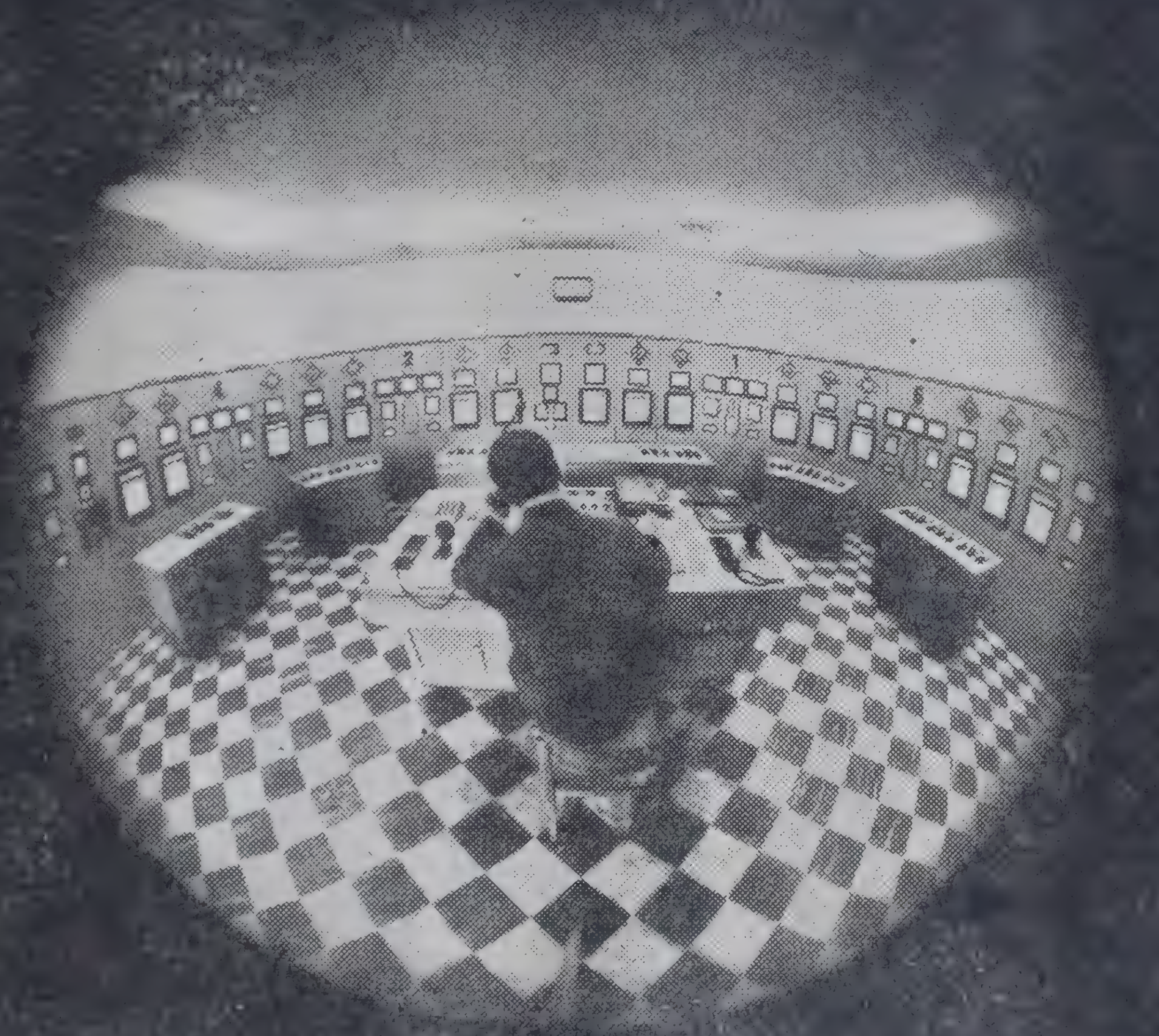

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2. Periodicity of Publication :	Yearly.
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Address :	92, Diamond Court, 40, Nepean Sea Road, Bombay 400036.
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Whether Citizen of India :	Yes.
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    New Delhi 110001.
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    through her father,
    natural guardian
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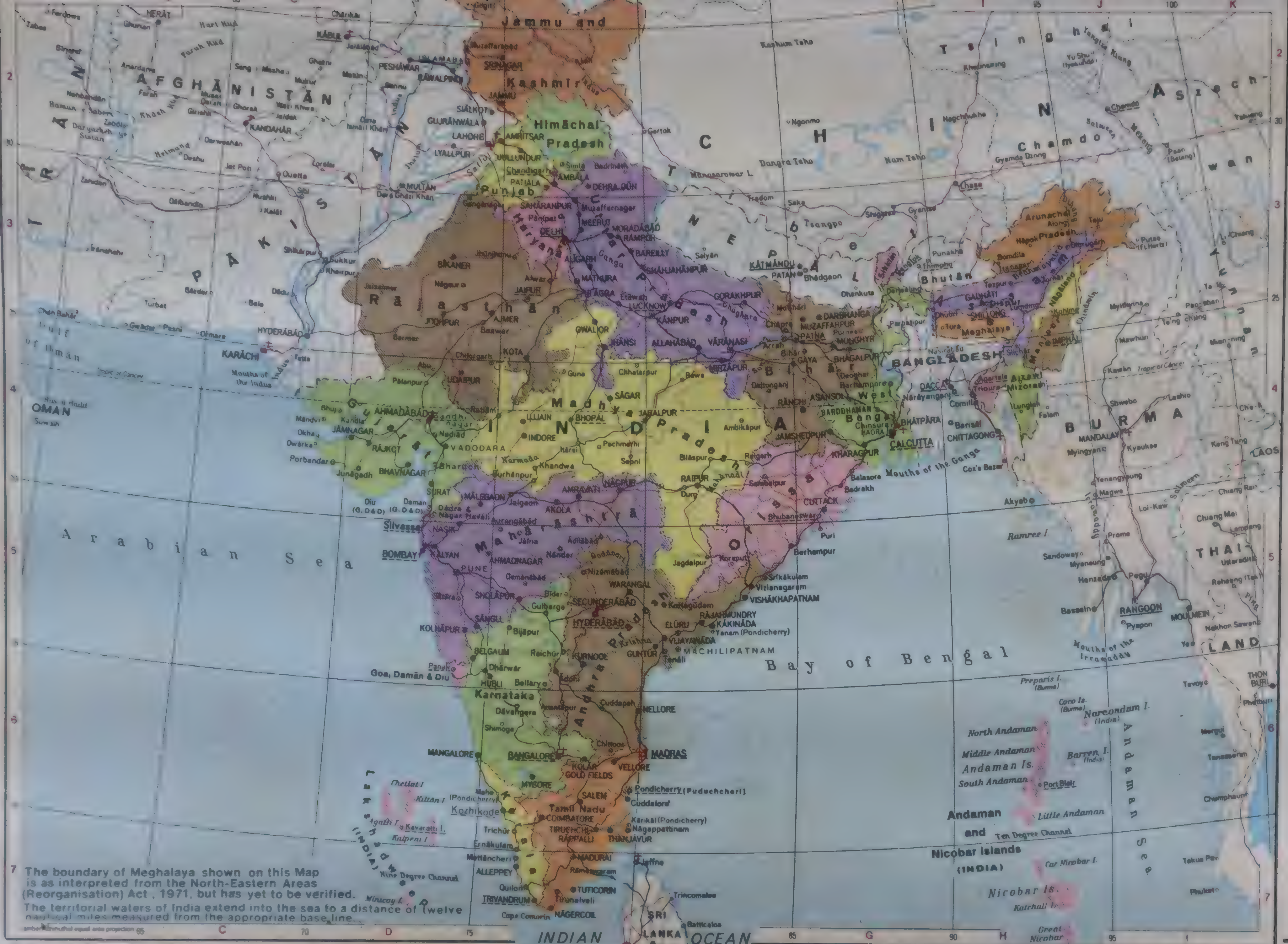
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Goa, Damān & Diu
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Meghalaya
Assam
Nagaland
Manipur
Tripura
Mizoram
Sikkim
Arabian Sea
Gulf of Omān
Bay of Bengal
Andaman Sea
INDIAN OCEAN
Lakshadweep (INDIA)
Andaman and Nicobar Islands (INDIA)
North Andaman
Middle Andaman
Andaman Is.
South Andaman
Little Andaman
Nicobar Is.
Ten Degree Channel
Nine Degree Channel
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DELHI
BOMBAY
CALCUTTA
MADRAS
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The boundary of Meghalaya shown on this Map is as interpreted from the North-Eastern Areas (Reorganisation) Act, 1971, but has yet to be verified.

The territorial waters of India extend into the sea to a distance of twelve nautical miles measured from the appropriate base line.

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0 100 200 300 400 500 Kilometres
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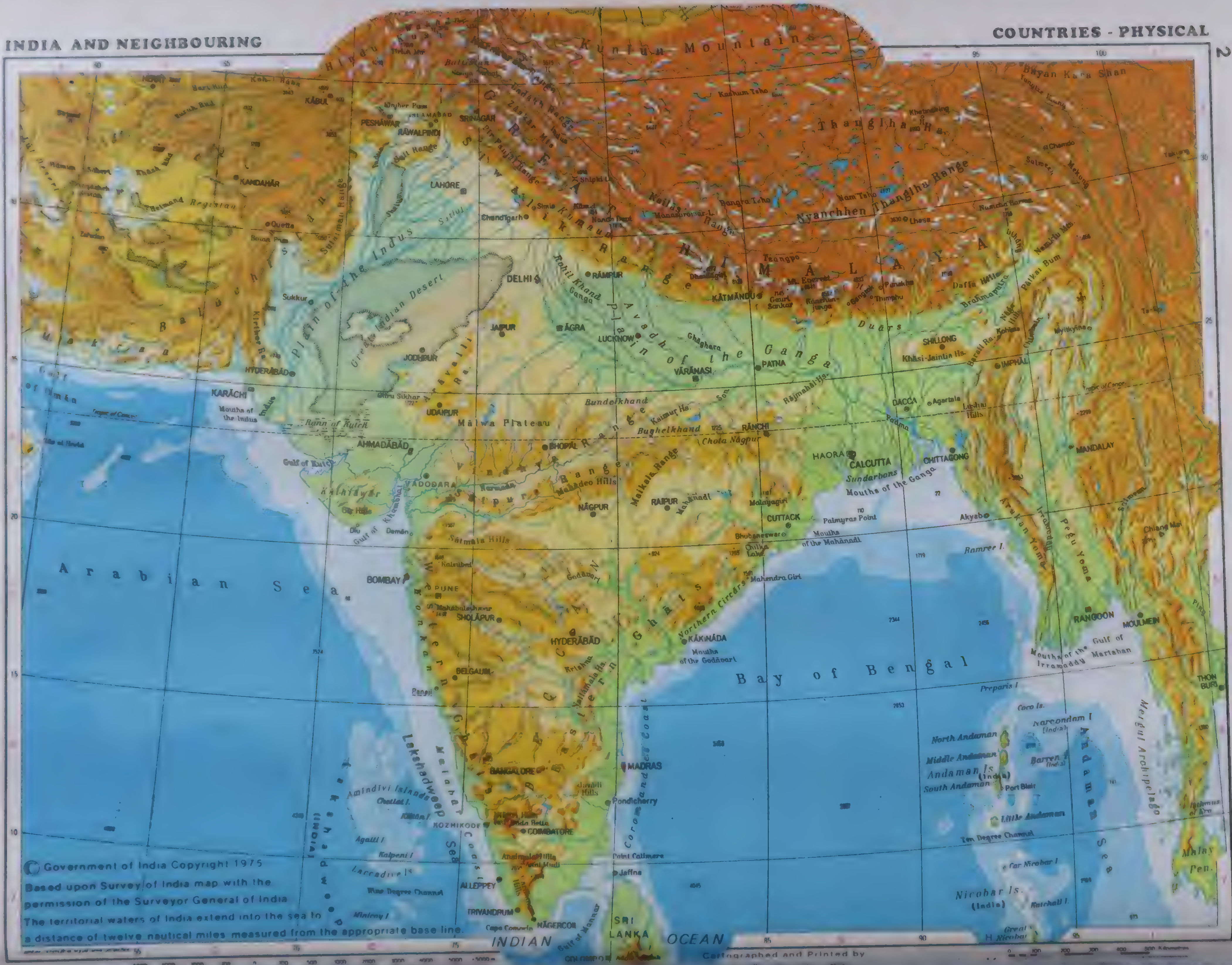
Hindu Kush
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Bayan Kara Shan
Thanglha Ra.
Nyanchhen Thanglha Range
Karakoram Range
Ladakh Range
Zaskar Mts.
Pir Panjal Range
Siwalik Range
Kailas Range
Kumaun
H I M A L A Y A
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Gauri Sankar
Kanchenjunga
Tsangpo
Manasarowar L.
Dafla Hills
Patkai Bum
Naga Hills
Brahmaputra
Duārs
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Lushai Hills
Kābul
Peshāwar
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Islamabad
Rāwalpindi
Salt Range
Srīnagar
Lahore
Chandīgarh
Simla
Shipki La
Kandahār
Quetta
Bolan Pass
Helmand
Registan
Sulaimān Range
Baluchistan
Kirthar Range
Makran
Sukkur
Plain of the Indus
Indus
Satluj
Great Indian Desert
Hyderābād
Karāchi
Mouths of the Indus
Gulf of Oman
Tropic of Cancer
Rann of Kutch
Gulf of Kutch
Kāthiāwār
Gir Hills
Diu
Gulf of Khambhat
Damān
Delhi
Jaipur
Jodhpur
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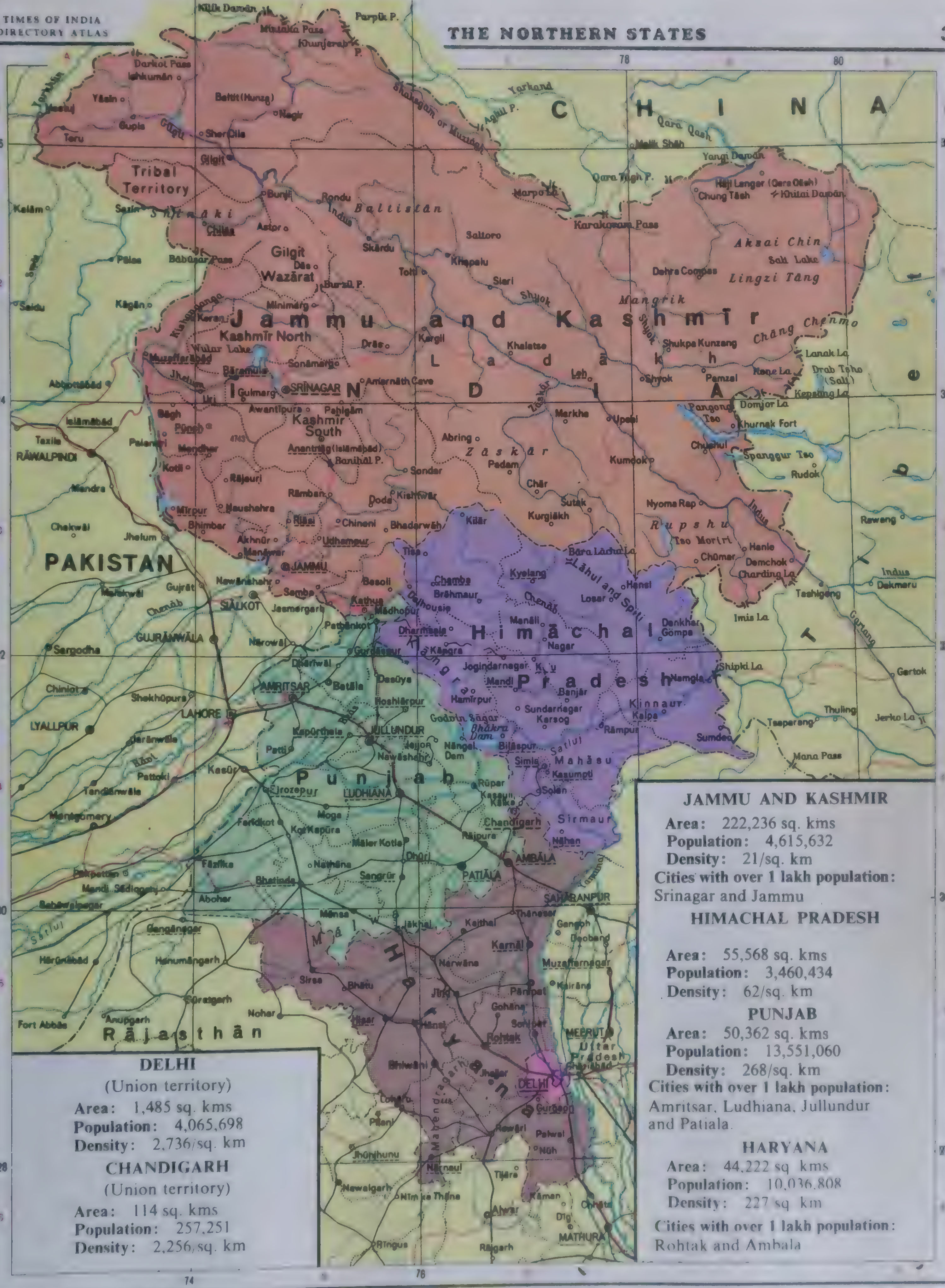
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PAKISTAN
Jammu and Kashmir
Ladakh
INDIA
Himāchal Pradesh
Punjab
Haryāna
Rājasthān
Uttar Pradesh
Aksai Chin
Lingzi Tāng
Tibet
Baltistān
Gilgit Wazārat
Tribal Territory
Kashmīr North
Kashmīr South
Zāskār
Rupshu
Lāhul and Spiti
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JAMMU AND KASHMIR

Area: 222,236 sq. kms
Population: 4,615,632
Density: 21/sq. km
Cities with over 1 lakh population:
Srinagar and Jammu

HIMACHAL PRADESH

Area: 55,568 sq. kms
Population: 3,460,434
Density: 62/sq. km

PUNJAB

Area: 50,362 sq. kms
Population: 13,551,060
Density: 268/sq. km
Cities with over 1 lakh population:
Amritsar, Ludhiana, Jullundur
and Patiala.

HARYANA

Area: 44,222 sq. kms
Population: 10,036,808
Density: 227 sq. km
Cities with over 1 lakh population:
Rohtak and Ambala

DELHI
(Union territory)
Area: 1,485 sq. kms
Population: 4,065,698
Density: 2,736/sq. km

CHANDIGARH
(Union territory)
Area: 114 sq. kms
Population: 257,251
Density: 2,256/sq. km

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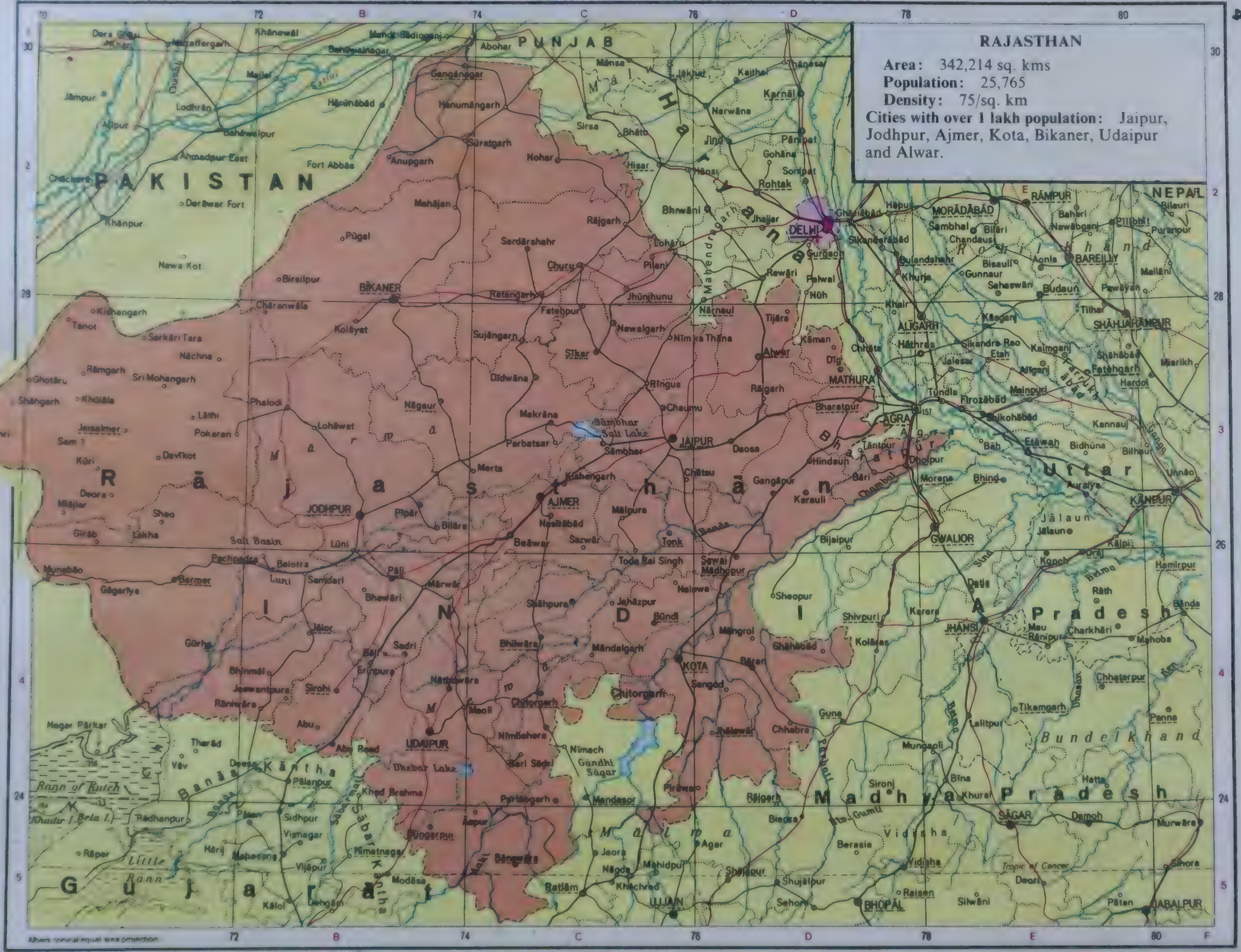
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PAKISTAN
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Jāmpur
Jalālpur
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Chaumu
Kishangarh
Tanot
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Jālaun
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Tilhar
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Sambhal
Bilāri
Chandausi
Ganga
Chambal
Banās
Sind
Betwa
Dhasān
Pārbati
Kālī Sindh
Sātlūj
Chenāb
Mahi
Sābarmati
Albers conical equal area projection
0
50
100
150 Kilometres

RAJASTHAN

Area: 342,214 sq. kms
Population: 25,765
Density: 75/sq. km
Cities with over 1 lakh population: Jaipur, Jodhpur, Ajmer, Kota, Bikaner, Udaipur and Alwar.

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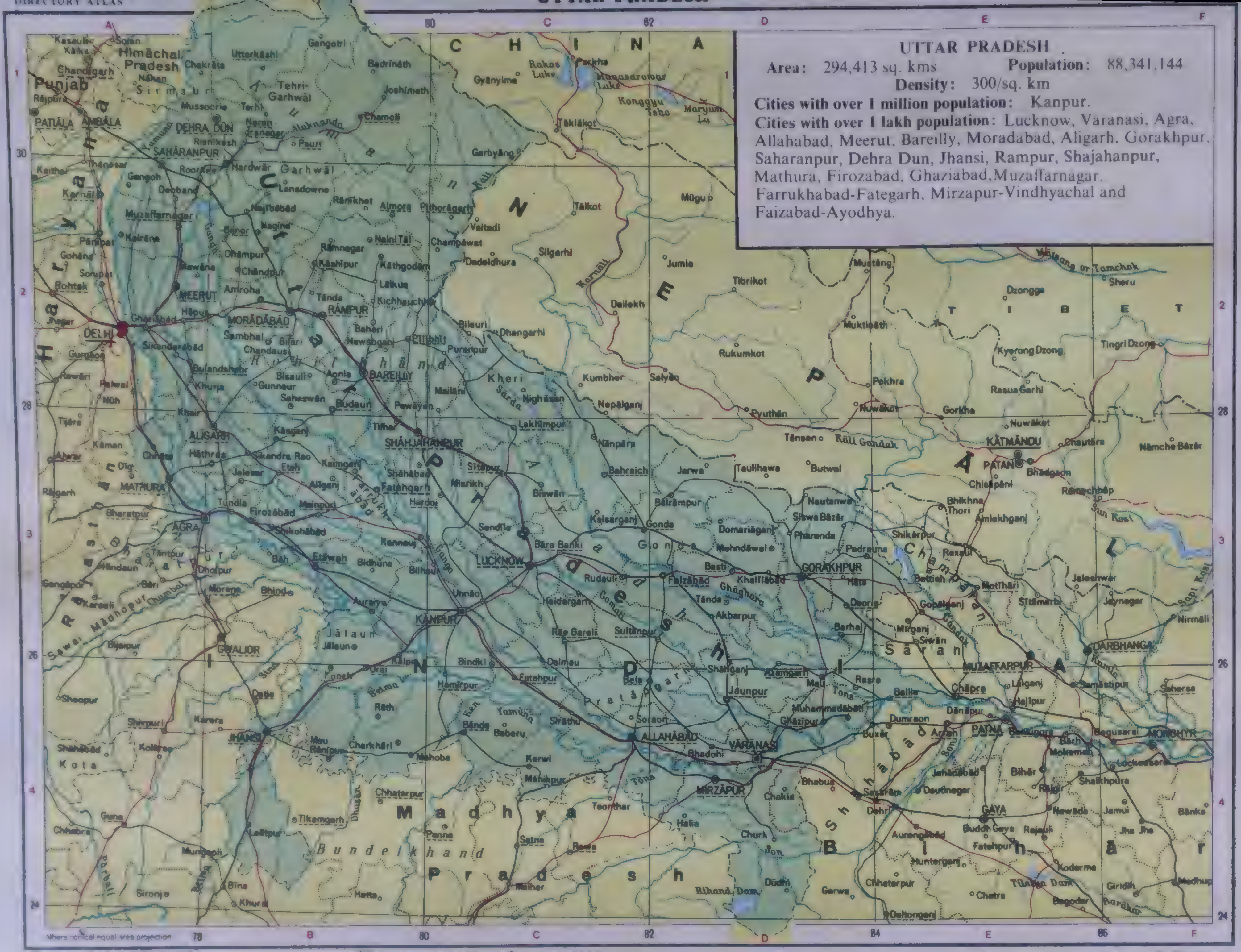
C H I N A
T I B E T
N E P Ā L
Himāchal Pradesh
Punjab
H a r y ā n a
R ā j a s t h ā n
U t t a r P r a d e s h
M a d h y a P r a d e s h
B i h ā r
Bundelkhand
Rohilkhand
Garhwāl
DELHI
LUCKNOW
KANPUR
AGRA
ALLAHABAD
VĀRĀNASI
GORAKHPUR
MEERUT
BAREILLY
MORĀDĀBĀD
ALIGARH
JHANSI
RĀMPUR
SHĀHJAHANPUR
MATHURA
DEHRA DŪN
SAHĀRANPUR
MIRZĀPUR
GWALIOR
PATNA
KĀTMĀNDU
MUZAFFARPUR
DARBHANGA
GAYA
MONGHYR
PATIĀLA
AMBĀLA
Ganga
Yamuna
Ghāghara
Gomati
Kāli
Son
Chambal
Betwa
Rāmganga
Kāli Gandak
Sun Kosi
Mānasarowar Lake
Rakas Lake
Rihand Dam
Tilaiya Dam
Albers conical equal area projection
A
B
C
D
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F
1
2
3
4
78
80
82
84
86
24
26
28
30
0
50
100
150 Kilometres
100 Statute Miles

UTTAR PRADESH

Area: 294,413 sq. kms **Population:** 88,341,144

Density: 300/sq. km

Cities with over 1 million population: Kanpur.

Cities with over 1 lakh population: Lucknow, Varanasi, Agra, Allahabad, Meerut, Bareilly, Moradabad, Aligarh, Gorakhpur, Saharanpur, Dehra Dun, Jhansi, Rampur, Shajahanpur, Mathura, Firozabad, Ghaziabad, Muzaffarnagar, Farrukhabad-Fategarh, Mirzapur-Vindhyachal and Faizabad-Ayodhya.

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Note · Statistical information in all maps-1971 Census.

BIHAR

Area: 173,876 sq. kms **Population:** 56,353,369

Density: 326/sq. km

Cities with over 1 lakh population: Patna, Jamshedpur, Gaya, Ranchi, Bhagalpur, Darbhanga, Muzaffarpur, Monghyr and Bihar.

WEST BENGAL

Area: 87,853 sq. kms **Density:** 504/sq. km

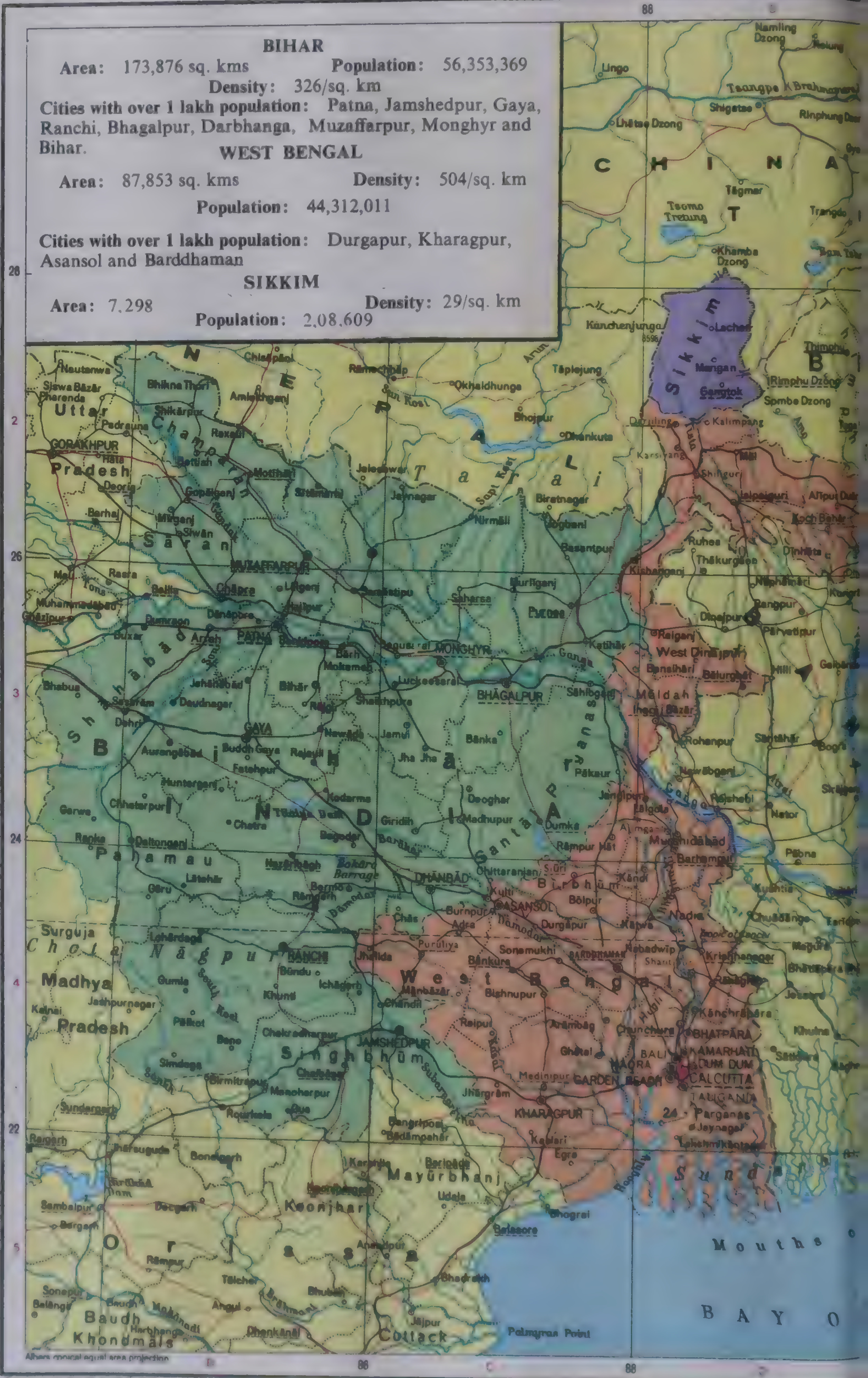
Population: 44,312,011

Cities with over 1 lakh population: Durgapur, Kharagpur, Asansol and Barddhaman

SIKKIM

Area: 7,298 **Density:** 29/sq. km

Population: 2,08,609


C H I N A
T
Namling Dzong
Lingo
Shigatse
Lhatse Dzong
Tsomo Tretung
Khamba Dzong
Kanchenjunga
Sikkim
Lachen
Mangan
Gangtok
Rimphu Dzong
Somba Dzong
Kalimpong
Darjiling
Karsiyang
Shiliguri
Jalpaiguri
Koch Bihar
Dinhata
Thakurgaon
Dinajpur
Rangpur
Parvatipur
West Dinajpur
Raiganj
Balurghat
Maldah
Ingraj Bazar
Rohanpur
Nawabganj
Rajshahi
Natore
Pabna
Kushtia
Murshidabad
Baharampur
Jangipur
Nadia
Krishnanagar
Nabadwip
Shanti
Kanchrapara
BHATPARA
KAMARHATI
DUM DUM
CALCUTTA
TALIGANJ
24 - Parganas
Jaynagar
Lakshmikantapur
Sundarbans
Mouths o
BAY O
N E P A L
T a r a i
Chisapani
Ramechhap
Okhaldhunga
Bhojpur
Dhankuta
Taplejung
Sun Kosi
Arun
Sapt Kosi
Biratnagar
Jaleshwar
Jaynagar
Uttar Pradesh
GORAKHPUR
Nautanwa
Siswa Bazar
Pharenda
Padrauna
Deoria
Barhaj
Mau
Rasra
Ballia
Ghazipur
Muhammadabad
Champaran
Bhikna Thori
Shikarpur
Amlekhganj
Raxaul
Bettiah
Motihari
Sitamarhi
Gopalganj
Mirganj
Siwan
Saran
MUZAFFARPUR
Chapra
Lalganj
Samastipur
Darbhanga
Nirmali
Saharsa
Murliganj
Purnea
Forbesganj
Kishanganj
Katihar
Dinapore
Dumraon
Buxar
Arrah
PATNA
Bakhtiarpur
Barh
Mokameh
Begusarai
MONGHYR
Luckeesarai
BHAGALPUR
Sahibganj
Ganga
Shahabad
Bhabua
Sasaram
Dehri
Daudnagar
Jahanabad
Bihar
Rajgir
Sheikhpura
Nawada
Jamui
Banka
GAYA
Aurangabad
Buddh Gaya
Rajauli
Fatehpur
Hunterganj
Chhatarpur
Chatra
Kodarma
Giridih
Deoghar
Madhupur
Dumka
Pakaur
Santal Parganas
Garwa
Ranka
Daltonganj
Palamau
Latehar
Hazaribagh
Bokaro Barrage
Bermo
Ramgarh
Bagodar
DHANBAD
Chittaranjan
Suri
Birbhum
Kandi
Bolpur
Kulti
ASANSOL
Burnpur
Durgapur
Katwa
Damodar
Adra
Chas
Purulia
Bankura
Sonamukhi
BARDDHAMAN
Jhalida
West Bengal
Manbazar
Bishnupur
Chandil
Arambag
Chinsura
Raipur
Ghatal
BALI
HAORA
GARDEN REACH
Medinipur
Jhargram
KHARAGPUR
Egra
Kanthi
Rupnarayan
Hugli
Surguja
Chota Nagpur
RANCHI
Lohardaga
Gumla
Bundu
Ichagarh
Khunti
South Koel
Palkot
Bano
Chakradharpur
JAMSHEDPUR
Singhbhum
Chaibasa
Simdega
Manoharpur
Birmitrapur
Rourkela
Subarnarekha
Madhya Pradesh
Jashpurnagar
Kunkuri
Sundargarh
Raigarh
Jharsuguda
Bonaigarh
Hirakud Dam
Sambalpur
Bargarh
Deogarh
Keonjhar
Keonjhargarh
Mayurbhanj
Baripada
Karanjia
Udala
Bangriposi
Badampahar
Balasore
Chograi
Orissa
Rampur
Anandpur
Bhadrakh
Talcher
Brahmani
Angul
Sonepur
Baudh
Balangir
Harbhanga
Khondmals
Mahanadi
Dhenkanal
Jajpur
Cuttack
Palmyras Point
INDIA
Albers conical equal area projection
84
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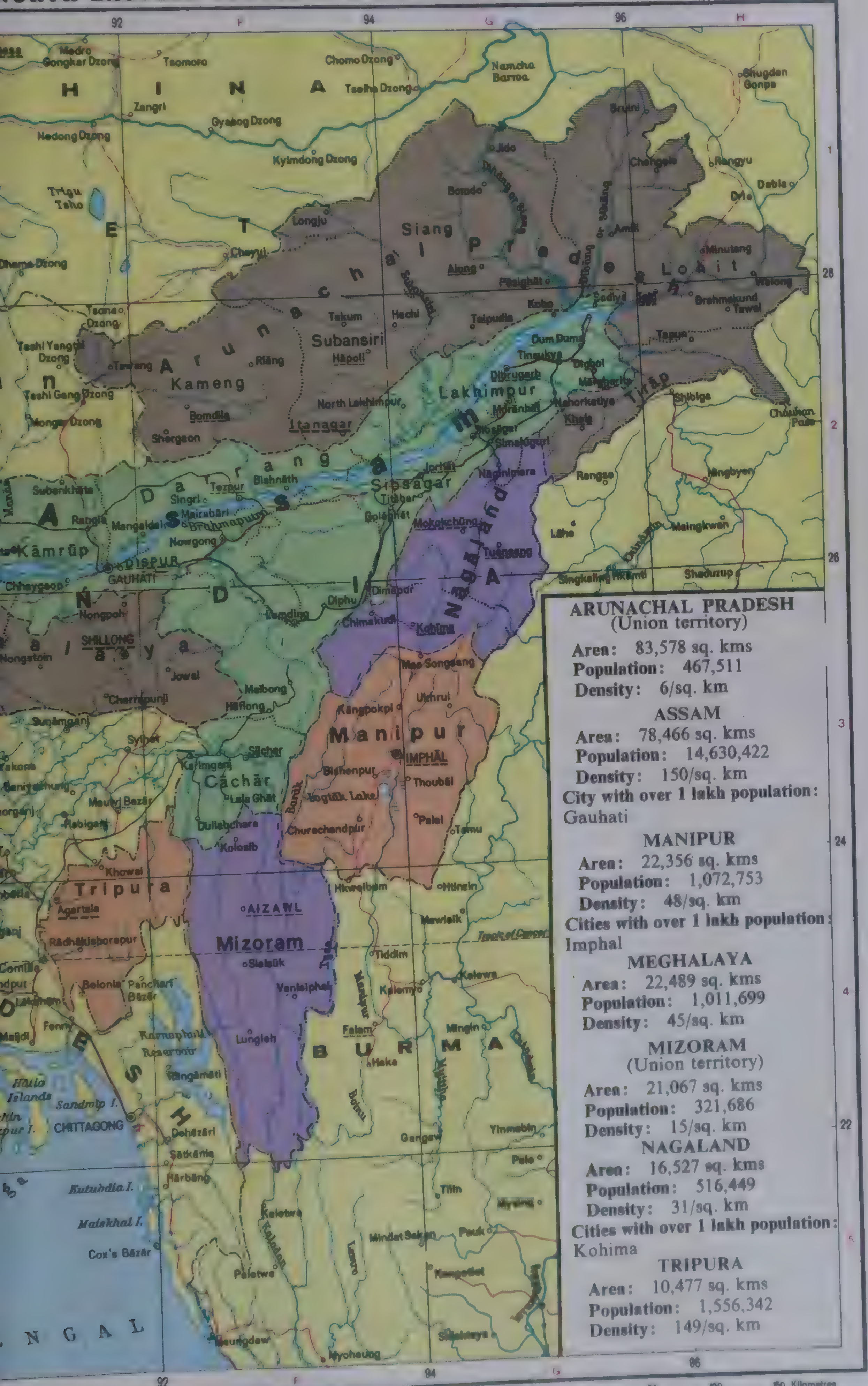
NORTH EASTERN STATES AND BANGLADESH


92
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C H I N A
T I B E T
Tsomoro
Chomo Dzong
Namcha Barwa
Shugden Gonpa
Tselha Dzong
Zangri
Gyasog Dzong
Nedong Dzong
Kyimdong Dzong
Trigu Taho
Longju
Cheyul
Dhama Dzong
Tsona Dzong
Tashi Yangtsi Dzong
Tashi Gang Dzong
Monga Dzong
Jido
Bruini
Chengela
Rangyu
Dablo
Drio
Bomdo
Siang
Along
Pasighat
Minutang
Lohit
Walong
Brahmakund
Tawal
Sadiya
Kobo
Tezu
Tapun
Arunachal Pradesh
Subansiri
Hapoli
Takum
Hachi
Telpudia
Tawang
Riang
Kameng
Bomdila
Shergaon
Itanagar
North Lakhimpur
Lakhimpur
Dum Duma
Tinsukia
Digboi
Dibrugarh
Margherita
Naharkatiya
Khela
Tirap
Shibiga
Chaukan Pass
Moranhat
Sonari
Simaluguri
Jorhat
Sibsagar
Titabar
Golaghat
Nagaland
Naginimora
Mokokchung
Tuensang
Kohima
Dimapur
Chimakudi
Mao Songsang
Rangsa
Hlingbyen
Lahe
Maingkwan
Singkaling Hkamti
Shadazup
Assam
Darrang
Tezpur
Bishnath
Singri
Subankhata
Rangia
Mangaldai
Mairabari
Brahmaputra
Nowgong
Kamrup
DISPUR
GAUHATI
Chhaygaon
Meghalaya
Nongpoh
SHILLONG
Nongstoin
Jowai
Cherrapunji
Lumding
Diphu
Maibong
Haflong
Sunamganj
Sylhet
Silchar
Karimganj
Cachar
Lala Ghat
Maulvi Bazar
Habiganj
Dullabchara
Kolasib
Manipur
Kangpokpi
Ukhrul
IMPHAL
Bishenpur
Thoubal
Loktak Lake
Barak
Churachandpur
Palel
Tamu
Tripura
Khowai
Agartala
Radhakisorepur
Belonia
Panchari Bazar
Feni
Comilla
Lakshmipur
Maijdi
Mizoram
AIZAWL
Sialsuk
Vanlaiphai
Lungleh
Hkwelbum
Htinzin
Mawlaik
Tropic of Cancer
Tiddim
Kalemyo
Kalewa
Falam
Mingin
B U R M A
Haka
Gangaw
Yinmabin
Pale
Tilin
Myaing
Karnaphuli Reservoir
Rangamati
BANGLADESH
Hatia Islands
Sandwip I.
CHITTAGONG
Dohazari
Satkania
Harbang
Kutubdia I.
Maiskhal I.
Cox's Bazar
Kaletwa
Kaladan
Paletwa
Mindat Sakan
Pauk
Kanpetlet
Saw
Maungdaw
Myohaung
BAY OF BENGAL
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0 50 100 150 Kilometres
0 50 100 Statute Miles

ARUNACHAL PRADESH
(Union territory)

Area: 83,578 sq. kms
Population: 467,511
Density: 6/sq. km

ASSAM

Area: 78,466 sq. kms
Population: 14,630,422
Density: 150/sq. km
City with over 1 lakh population:
Gauhati

MANIPUR

Area: 22,356 sq. kms
Population: 1,072,753
Density: 48/sq. km
Cities with over 1 lakh population:
Imphal

MEGHALAYA

Area: 22,489 sq. kms
Population: 1,011,699
Density: 45/sq. km

MIZORAM
(Union territory)

Area: 21,067 sq. kms
Population: 321,686
Density: 15/sq. km

NAGALAND

Area: 16,527 sq. kms
Population: 516,449
Density: 31/sq. km
Cities with over 1 lakh population:
Kohima

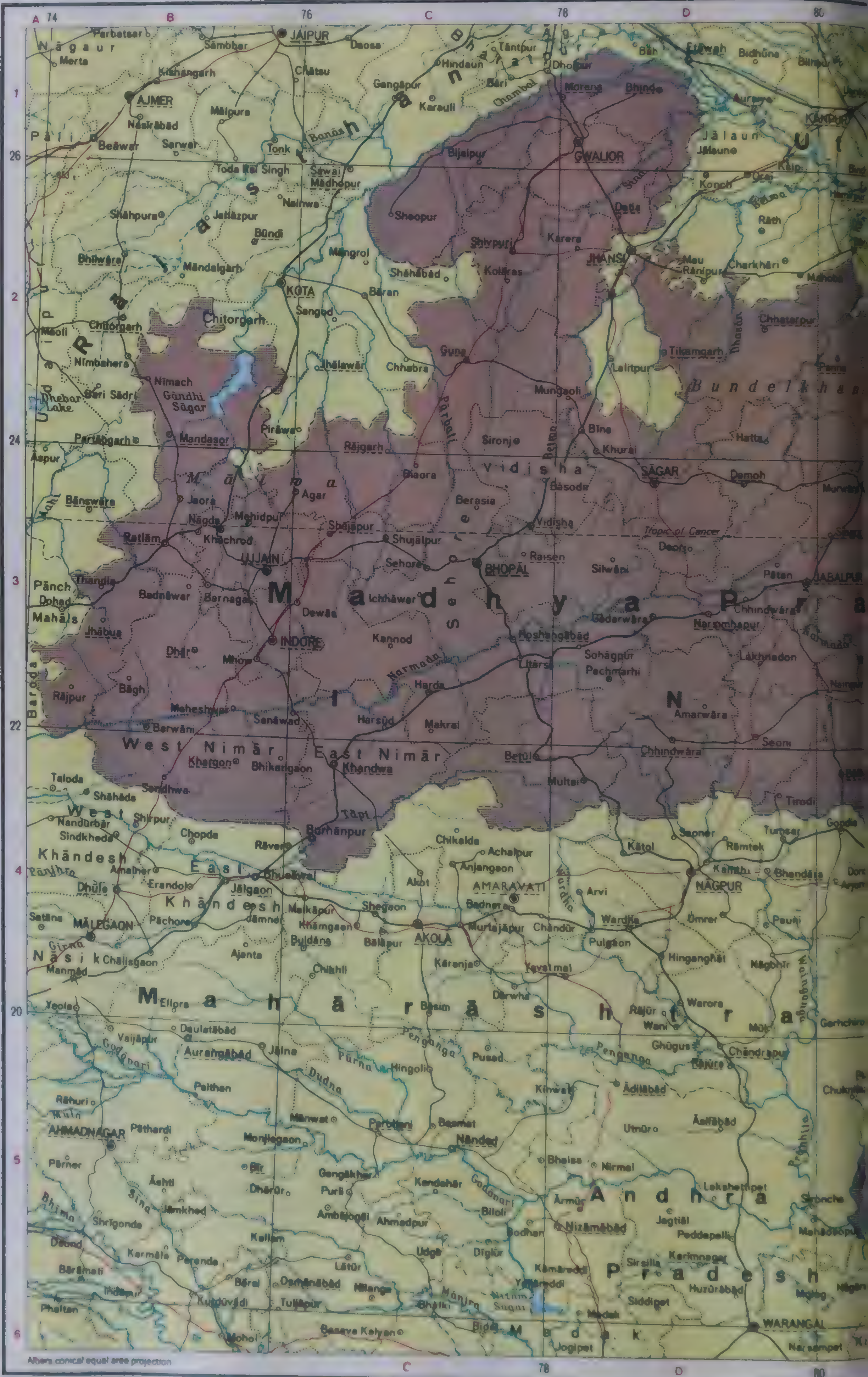
TRIPURA

Area: 10,477 sq. kms
Population: 1,556,342
Density: 149/sq. km

orial waters of India extend into the sea to a distance of twelve nautical miles
from the appropriate base line.

dary of Meghalaya shown on this Map is as interpreted from the North-Eastern
organisation) Act, 1971, but has yet to be verified.

MADHYA PRADE


A
74
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6
Rājasthān
Parbatsar
Nāgaur
Merta
Sāmbhar
JAIPUR
Daosa
Kishangarh
Chātsu
AJMER
Nasirābād
Mālpura
Pāli
Beāwar
Sarwar
Tonk
Banās
Toda Rai Singh
Sawai Mādhopur
Nainwa
Shāhpura
Jahāzpur
Būndi
Bhīlwāra
Māndalgarh
KOTA
Māngrol
Bāran
Sangod
Chitorgarh
Mauli
Nīmbahera
Dhebar Lake
Bari Sādri
Nīmach
Gāndhi Sāgar
Jhālawār
Chhabra
Pirāwa
Mandasor
Partābgarh
Āspur
Bānswāra
Mahi
Udaipur
Bharatpur
Tāntpur
Hindaun
Gangāpur
Karauli
Bāri
Dholpur
Chambal
Morena
Bhind
Bāh
Etāwah
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Auraiya
KANPUR
Jālaun
Konch
Kālpi
Ūrai
Betwa
Rāth
Bijaipur
GWALIOR
Sind
Sheopur
Datia
Shivpuri
Karera
Kolāras
Shāhābād
JHĀNSI
Mau Rānīpur
Charkhāri
Mahoba
Chhatarpur
Tīkamgarh
Dhasān
Lalitpur
Guna
Mungaoli
Pārbati
Panna
Bundelkhand
Bīna
Khurai
Sironj
Hatta
Betwa
Rājgarh
Biaora
Vidisha
SĀGAR
Damoh
Murwāra
Bāsoda
Berasia
Vidisha
Tropic of Cancer
Mālwa
Jaora
Agar
Nāgda
Mehidpur
Khāchrod
Shājāpur
Shujālpur
Ratlām
UJJAIN
Sehore
BHOPĀL
Raisen
Deori
Sīlwāni
Pātan
JABALPUR
Thāndla
Pānch Mahāls
Dohad
Badnāwar
Barnagar
Dewās
Ichhāwar
Madhya Pradesh
Chhindwāra
Gādarwāra
Narsimhapur
Jhābua
Dhār
INDORE
Kannod
Hoshangābād
Mhow
Narmada
Itārsi
Sohāgpur
Pachmarhi
Lakhnadon
Baroda
Rājpur
Bāgh
Harda
Maheshwar
Sanāwad
Harsūd
Makrai
Amarwāra
Barwāni
Nimār
West Nimār
East Nimār
Khargon
Bhikangaon
Khandwa
Betūl
Chhindwāra
Seoni
Taloda
Shāhāda
Sendhwa
Multai
Tirodi
West Khāndesh
Nandurbār
Shirpur
Sindkheda
Tāpi
Burhānpur
Chopda
Rāver
Chikalda
Saoner
Rāmtek
Tumsar
Gondia
Kātol
Achalpur
Anjangaon
Amalner
Erandol
Bhusāwal
Akot
AMARĀVATI
Arvi
Kāmthi
NĀGPUR
Bhandāra
Dhūle
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East Khāndesh
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Badnera
Wardha
Umrer
Pauni
Satāna
MĀLEGAON
Pāchora
Malkāpur
Jāmner
Khāmgaon
AKOLA
Murtajāpur
Chāndūr
Wardha
Buldāna
Bālāpur
Pulgaon
Nāsik
Girna
Chālisgaon
Ajanta
Chikhli
Kāranja
Yavatmāl
Hinganghāt
Nāgbhir
Manmād
Mahārāshtra
Ellora
Darwha
Yeola
Bāsim
Rājūr
Wani
Warora
Mūl
Gadhchiroli
Daulatābād
Vaijāpur
Godāvari
Aurangābād
Jālna
Penganga
Pūrna
Pusad
Hingoli
Penganga
Ghūgus
Chāndrapur
Rājura
Dudna
Paithan
Kinwat
Ādilābād
Rāhuri
Mula
AHMADNAGAR
Pāthardi
Mānwat
Parbhani
Basmat
Utnūr
Āsifābād
Wainganga
Nānded
Monjlegaon
Pārner
Bīr
Bhaisa
Nirmal
Gangākher
Āshti
Dhārūr
Purli
Kandahār
Godāvari
Armūr
Andhra Pradesh
Lakshettipet
Sironcha
Bhīma
Sina
Jāmkhed
Shrīgonda
Ambājogāi
Ahmadpur
Biloli
Jagtiāl
Nizāmābād
Bodhan
Peddapalli
Mahādeopur
Daund
Kallam
Karmāla
Parenda
Udgīr
Dīglūr
Kāmāreddi
Karīmnagar
Sircilla
Bārāmati
Indāpur
Bārsi
Osmānābād
Lātūr
Nilanga
Mānjra
Yellāreddi
Huzūrābād
Nizām Sāgar
Phaltan
Kurdūvādi
Tuljāpur
Bhālki
Siddipet
Mohol
Basava Kalyan
Bīdar
Medak
Jogīpet
WARANGAL
Narsampet
Albers conical equal area projection

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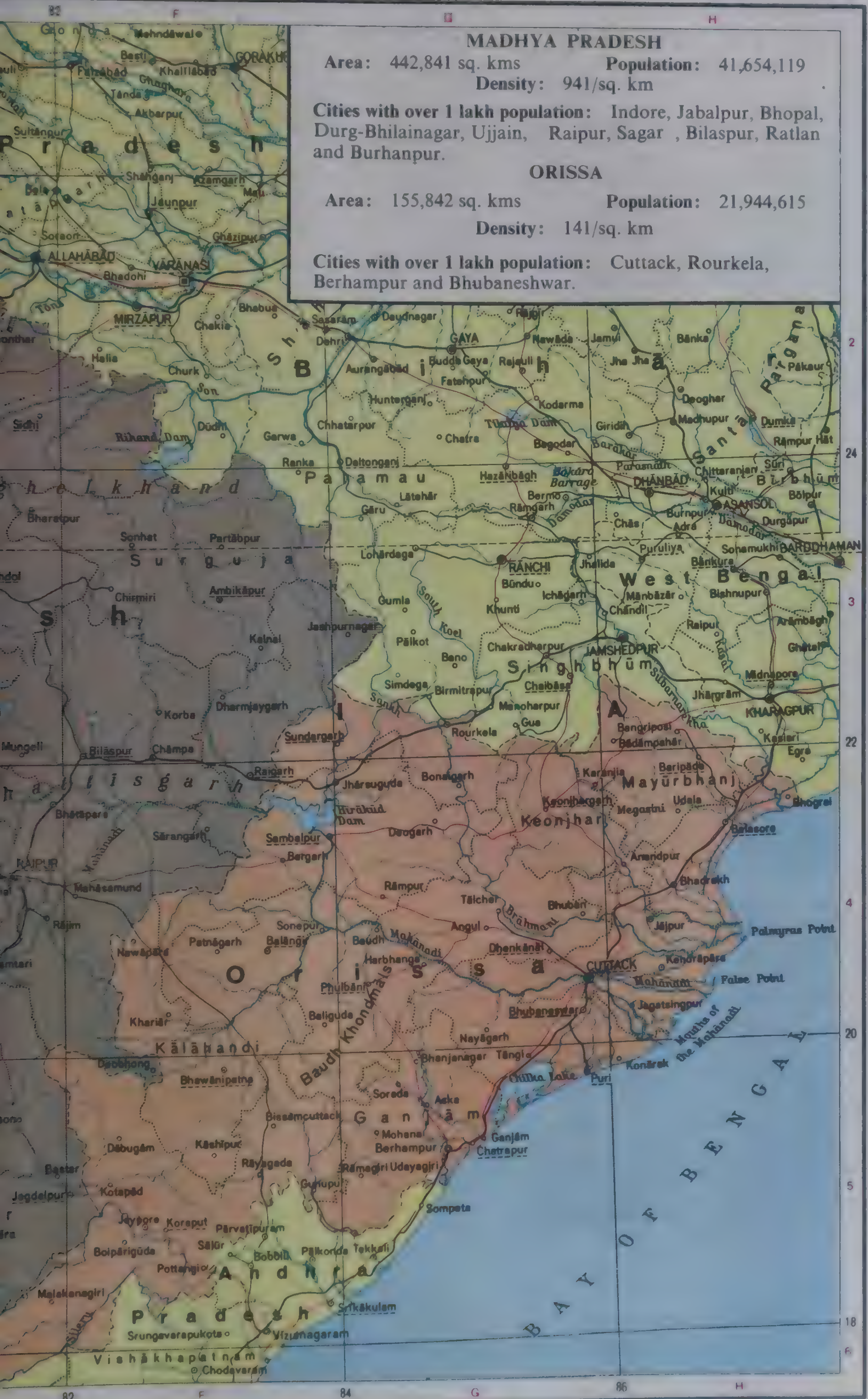
Gonda
Mehndawal
Basti
Faizabad
Khalilabad
GORAKHPUR
Tanda
Akbarpur
Sultanpur
Pradesh
Shahganj
Azamgarh
Mau
Jaunpur
Bela
Soraon
Ghazipur
ALLAHABAD
VARANASI
Bhadohi
Bhabua
MIRZAPUR
Chakia
Sasaram
Daudnagar
Rajgir
Dehri
GAYA
Nawada
Jamui
Banka
Halia
Churk
Buddh Gaya
Rajauli
Jha Jha
Pakaur
Aurangabad
Fatehpur
Bihar
Son
Hunterganj
Kodarma
Deoghar
Santal Parganas
Sidhi
Rihand Dam
Dudhi
Garwa
Chhatarpur
Chatra
Tilaiya Dam
Giridih
Madhupur
Dumka
Rampur Hat
Begodar
Barakar
Ranka
Daltonganj
Parasnath
Chittaranjan
Suri
Palamau
Hazaribagh
Bokaro Barrage
DHANBAD
Birbhum
Baghelkhand
Latehar
Bermo
Kulti
ASANSOL
Bolpur
Bharatpur
Garu
Ramgarh
Damodar
Chas
Burnpur
Adra
Durgapur
Sonhat
Partabpur
Purulia
Sonamukhi
BARDDHAMAN
Surguja
Lohardaga
RANCHI
Jhalida
Bankura
Bundu
West Bengal
Chirmiri
Ambikapur
Ichagarh
Manbazar
Bishnupur
Gumla
South Koel
Khunti
Chandil
Raipur
Arambagh
Madhya Pradesh
Jashpurnagar
Katnai
Palkot
Chakradharpur
JAMSHEDPUR
Kasai
Ghatal
Bano
Singhbhum
Midnapore
Simdega
Birmitrapur
Chaibasa
Subarnarekha
Jhargram
Korba
Dharmjaygarh
Sankh
Manoharpur
KHARAGPUR
Gua
Sundargarh
Rourkela
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Bilaspur
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Mayurbhanj
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Bhograi
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Hirakud Dam
Keonjhargarh
Megasini
Keonjhar
Balasore
Sarangarh
Sambalpur
Deogarh
Mahanadi
RAIPUR
Bargarh
Anandpur
Mahasamund
Rampur
Bhadrakh
Talcher
Bhuban
Brahmani
Rajim
Sonepur
Angul
Jajpur
Palmyras Point
Nawapara
Patnagarh
Balangir
Baudh
Dhenkanal
Kendrapara
Dhamtari
Orissa
Harbhanga
CUTTACK
False Point
Phulbani
Mahanadi
Baliguda
Bhubaneswar
Jagatsingpur
Khariar
Khondmals
Mouths of the Mahanadi
Nayagarh
Kalahandi
Baudh
Bhanjanagar
Tangi
Konarak
Deobhog
Bhawanipatna
Chilka Lake
Puri
Soroda
Aska
Bissamcuttack
Ganjam
Mohana
Dabugam
Kashipur
Berhampur
Ganjam
Chatrapur
Rayagada
Ramagiri Udayagiri
Bastar
Gunupur
Jagdalpur
Kotapad
Sompeta
Jeypore
Koraput
Parvatipuram
Boipariguda
Salur
Bobbili
Palkonda
Tekkali
Pottangi
Andhra
Malakanagiri
Pradesh
Srikakulam
Silero
Srungavarapukota
Vizianagaram
Vishakhapatnam
Chodavaram
BAY OF BENGAL
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6
24
22
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18
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100
150 Kilometres
0
50
100 Statute Miles

MADHYA PRADESH

Area: 442,841 sq. kms **Population:** 41,654,119
Density: 941/sq. km

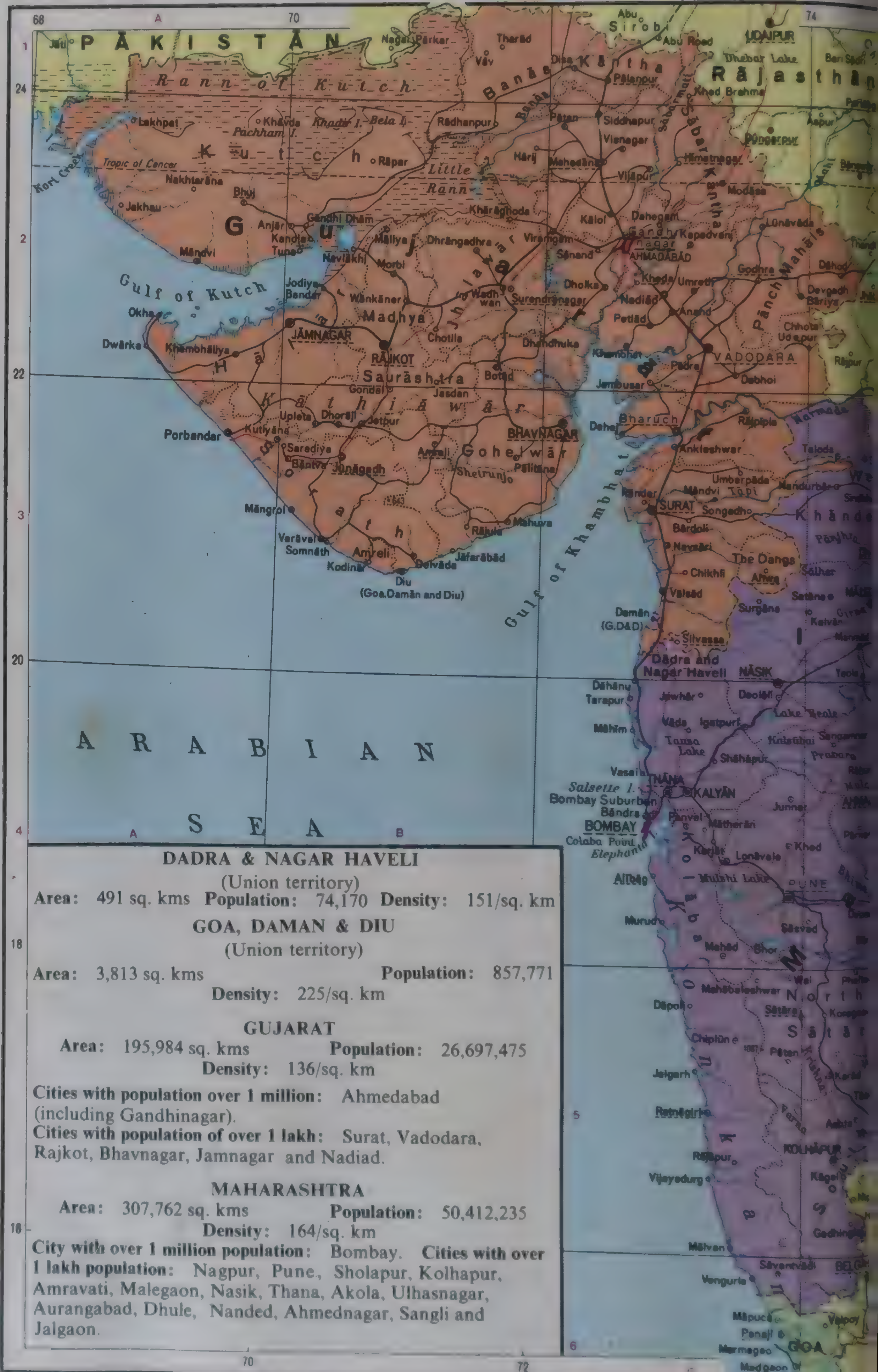
Cities with over 1 lakh population: Indore, Jabalpur, Bhopal, Durg-Bhilainagar, Ujjain, Raipur, Sagar, Bilaspur, Ratlan and Burhanpur.

ORISSA

Area: 155,842 sq. kms **Population:** 21,944,615
Density: 141/sq. km

Cities with over 1 lakh population: Cuttack, Rourkela, Berhampur and Bhubaneshwar.

rial waters of India extend into the sea to a distance of twelve nautical miles
from the appropriate base line.
stical information in all maps-1971 Census


PĀKISTĀN
Rann of Kutch
Kutch
Little Rann
Gulf of Kutch
Gujarāt
Madhya Saurāshtra
Kāthiāwār
Sorath
Gohelwār
Hālār
Jhālāvār
Kānthā
Sābar Kāntha
Panch Mahals
Rājasthān
Gulf of Khambhat
ARABIAN SEA
Tropic of Cancer
Kori Creek
Lakhpat
Khāvda
Pachham I.
Khadir I.
Bela I.
Rāpar
Nakhtarāna
Bhuj
Jakhau
Anjār
Gāndhi Dhām
Kandla
Tuna
Māndvi
Navlakhi
Māliya
Morbi
Dhrāngadhra
Okha
Dwārka
Khambhāliya
Jodiya Bandar
JĀMNAGAR
Wānkāner
RĀJKOT
Chotila
Wadhwān
Surendranagar
Gondal
Jasdan
Botād
Upleta
Dhorāji
Jetpur
Kutiyāna
Porbandar
Saradiya
Bāntva
Jūnāgadh
Amreli
Sheirunj
Pālitāna
BHAVNAGAR
Māngrol
Verāval
Somnāth
Kodinār
Diu (Goa,Damān and Diu)
Belvāda
Jāfarābād
Rājula
Mahuva
Nagar Pārkar
Jati
Tharād
Vāv
Disa
Abu
Sirohi
Abu Road
Pālanpur
Rādhanpur
Pātan
Siddhapur
Visnagar
Hārij
Mahesāna
Vijāpur
Himatnagar
Khed Brahma
UDAIPUR
Dhebar Lake
Dūngarpur
Modāsa
Lūnāvāda
Khārāghoda
Viramgām
Kalol
Dahegām
Gāndhinagar
Kapadvanj
AHMADĀBĀD
Sānand
Dholka
Kheda
Umreth
Nadiād
Godhra
Dāhod
Devgadh Bāriya
Anand
Petlād
Dhandhuka
Khambhat
Padra
Chhota Udepur
VADODARA
Dabhoi
Jambusar
Dahej
Bharuch
Rājpipla
Ankleshwar
Narmada
Umbarpāda
Māndvi
Tāpi
Nandurbār
Rānder
SURAT
Songadh
Bārdoli
Navsāri
The Dangs
Āhwa
Chikhli
Valsād
Damān (G.D&D)
Silvassa
Dādra and Nagar Haveli
Surgāna
NĀSIK
Dāhanu
Tarāpur
Jawhār
Deolāli
Māhim
Vāda
Igatpuri
Tansa Lake
Shāhāpur
Vasai
THĀNA
KALYĀN
Salsette I.
Bombay Suburban
Bāndra
BOMBAY
Colaba Point
Elephanta
Panvel
Māthrān
Karjat
Lonāvala
Mulshi Lake
PUNE
Alībāg
Murud
Mahād
Mahābaleshwar
Dāpoli
Sātāra
Chiplūn
Pātan
Jaigarh
Ratnāgiri
Rājāpur
Vijayadurg
KOLHAPUR
Mālvan
Vengurla
Sāvantvādi
Māpuca
Panaji
Marmagao
GOA
Madgaon
Kānkon
Konkan
North Sātāra
Khāndesh
Taloda
Kalvān
Junnar
Khed
Sāsvad
68
70
72
74
24
22
20
18
16
A
B
C
1
2
3
4
5
6

DADRA & NAGAR HAVELI

(Union territory)

Area: 491 sq. kms **Population:** 74,170 **Density:** 151/sq. km

GOA, DAMAN & DIU

(Union territory)

Area: 3,813 sq. kms **Population:** 857,771

Density: 225/sq. km

GUJARAT

Area: 195,984 sq. kms **Population:** 26,697,475

Density: 136/sq. km

Cities with population over 1 million: Ahmedabad (including Gandhinagar).

Cities with population of over 1 lakh: Surat, Vadodara, Rajkot, Bhavnagar, Jamnagar and Nadiad.

MAHARASHTRA

Area: 307,762 sq. kms **Population:** 50,412,235

Density: 164/sq. km

City with over 1 million population: Bombay. **Cities with over 1 lakh population:** Nagpur, Pune, Sholapur, Kolhapur, Amravati, Malegaon, Nasik, Thana, Akola, Ulhasnagar, Aurangabad, Dhule, Nanded, Ahmednagar, Sangli and Jalgaon.

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Madras-44.

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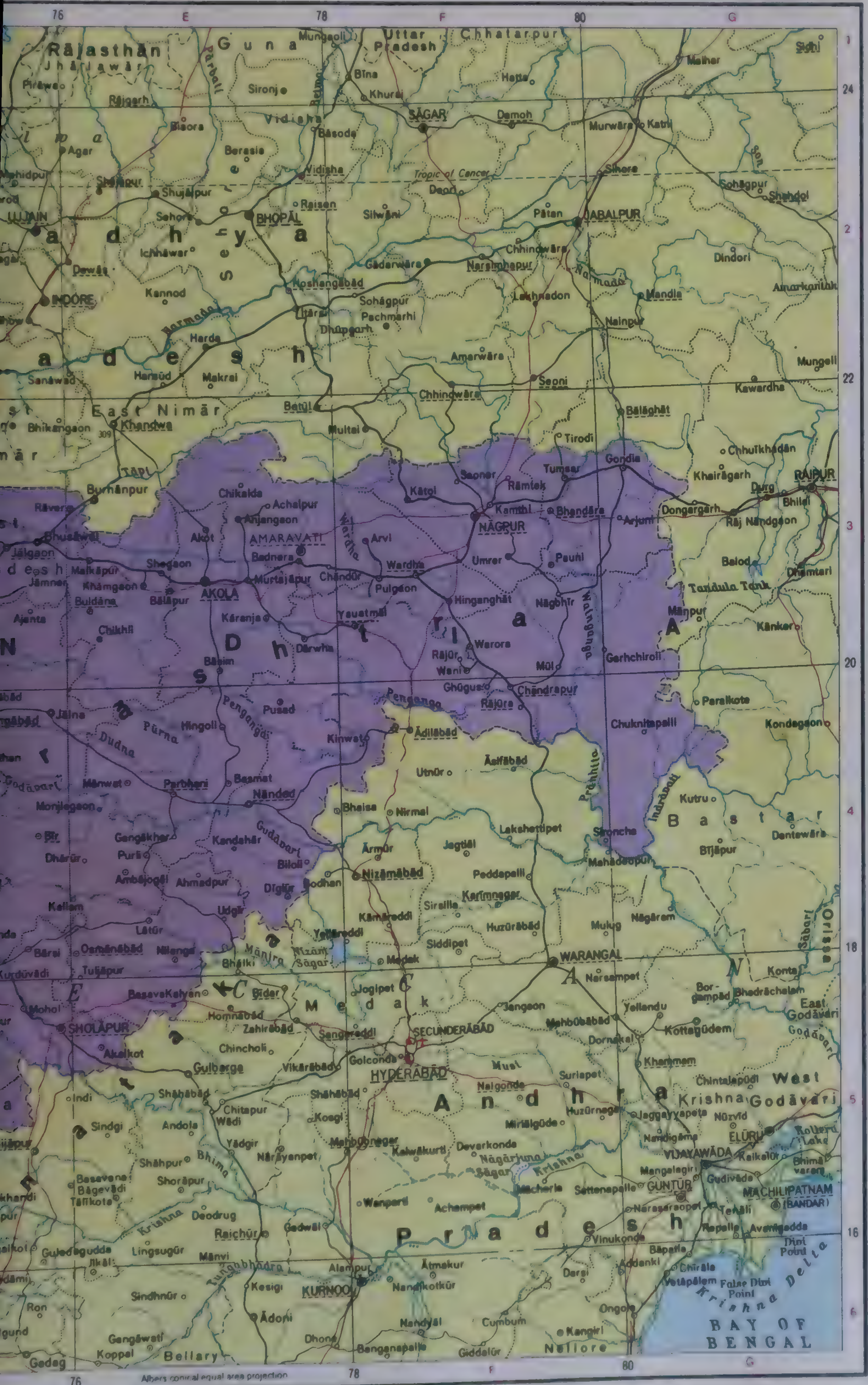
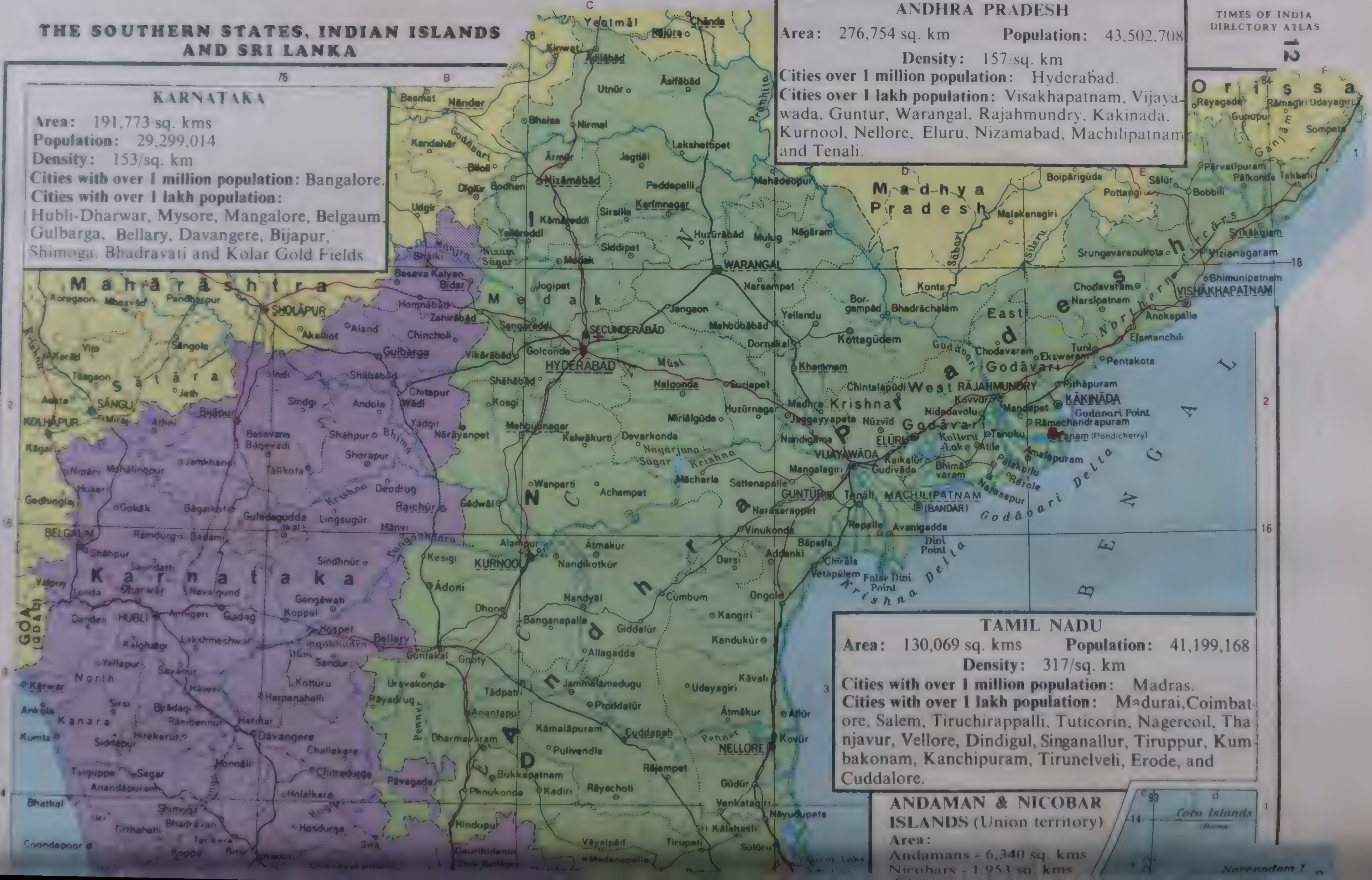

76
E
78
F
80
G
1
24
2
22
3
20
4
18
5
16
6
Rājasthān
Jhālawār
Guna
Uttar Pradesh
Chhatarpur
Sidhi
Sironj
Bina
Khurai
Hatta
Maihar
Rājgarh
Biaora
Vidisha
Bāsoda
SĀGAR
Damoh
Murwāra
Katni
Agar
Berasia
Son
Vidisha
Tropic of Cancer
Deori
Sihora
Sohāgpur
Shahdol
Shujālpur
Raisen
Silwāni
Pātan
JABALPUR
Sehore
BHOPĀL
UJJAIN
Madhya Pradesh
Ichhāwar
Chhindwāra
Dindori
Dewās
Gādarwāra
Narsimhapur
Narmada
Amarkantak
INDORE
Kannod
Hoshangābād
Sohāgpur
Lakhnadon
Mandla
Itārsi
Pachmarhi
Nainpur
Harda
Dhūpgarh
Amarwāra
Mungeli
Sanāwad
Harsūd
Makrai
Seoni
Kawardha
Chhindwāra
Betūl
Bālāghāt
East Nimār
Bhikangaon
Khandwa
Multai
Tirodi
Tāpi
Chhuīkhadān
Burhānpur
Saoner
Tumsar
Gondia
Khairāgarh
RAIPUR
Chikalda
Achalpur
Kātol
Rāmtek
Durg
Bhilai
Rāver
Anjangaon
Kamthi
Bhandāra
Dongargarh
Bhusāwal
Akot
AMARAVATI
Wardha
Arvi
NĀGPUR
Arjuni
Rāj Nāndgaon
Jalgaon
Badnera
Umrer
Pauni
Balod
Malkāpur
Shegaon
Wardha
Dhamtari
Jāmner
Khāmgaon
AKOLA
Murtajāpur
Chāndur
Pulgaon
Hinganghāt
Nāgbhīr
Tandula Tank
Buldāna
Bālāpur
Kāranja
Yavatmāl
Wainganga
Mānpur
Ajanta
Chikhli
Maharashtra
Kānker
Dārwha
Warora
Rājūr
Garhchiroli
Bāsim
Wani
Mūl
Ghūgus
Chāndrapur
Jālna
Pusad
Penganga
Rājūra
Paralkote
Pūrna
Hingoli
Kinwat
Ādilābād
Chuknitapalli
Kondagaon
Dudna
Āsifābād
Utnūr
Godāvari
Mānwat
Parbhani
Basmat
Prānhita
Nānded
Indrāvati
Kutru
Monjlegaon
Bhaisa
Nirmal
Bastar
Lakshettipet
Sironcha
Dantewāra
Bīr
Gangākher
Kandahār
Godāvari
Jagtiāl
Bījāpur
Dhārūr
Purli
Biloli
Ārmūr
Mahādeopur
Ambājogāi
Ahmadpur
Dīglūr
Bodhan
Nizāmābād
Peddapalli
Kallam
Udgīr
Sirsilla
Karīmnagar
Sabari
Orissa
Lātūr
Kāmāreddi
Huzūrābād
Mulug
Nāgāram
Yellāreddi
Bārsi
Osmānābād
Nilanga
Mānjra
Nizām Sāgar
Siddipet
Bhālki
Medak
WARANGAL
Kurdūvādi
Tuljāpur
Konta
Narsampet
Bor-gampād
Bhadrāchalam
Basavakalyān
Bīdar
Jogipet
Mohol
Medak
Jangaon
Yellandu
East Godāvari
SHOLĀPUR
Homnābād
Mahbūbābād
Zahirābād
Sangāreddi
SECUNDERĀBĀD
Dornakal
Kottagūdem
Akalkot
Chincholi
Golconda
Gulbarga
Vikārābād
HYDERĀBĀD
Musi
Khammam
Suriapet
Indi
Shāhābād
Shāhābād
Nalgonda
Chintalapūdi
West Godāvari
Krishna
Chitāpur
Wādi
Kosgi
Andhra Pradesh
Huzūrnagar
Jaggayyapeta
Nūzvid
Sindgi
Andola
Miriālgūda
Nandigāma
ELŪRU
Kolleru Lake
Yādgir
Mahbūbnagar
Kalwākurti
Devarkonda
VIJAYAWADA
Kaikalūr
Nārāyanpet
Nāgārjuna Sāgar
Mangalagiri
Bhīmavaram
Shāhpur
Bhīma
Krishna
Gudivāda
Basavana Bāgevādi
Shorāpur
Mācherla
Sattenapalle
GUNTŪR
MACHILĪPATNAM (BANDAR)
Tālikota
Wanparti
Achampet
Narasaraopet
Tenāli
Deodrug
Krishna
Rāichūr
Gadwāl
Repalle
Avanigadda
Vinukonda
Bāpatla
Divi Point
Gudedagudda
Ilkal
Lingsugūr
Mānvi
Ātmakur
Addanki
Chīrāla
Krishna Delta
Tungabhadra
Alampur
Darsi
Vetāpālem
False Divi Point
Kesigi
KURNOOL
Nandikotkūr
Sindhnūr
Ongole
Ādoni
Nandyāl
Cumbum
BAY OF BENGAL
Gangāwati
Koppal
Bellary
Dhone
Banganapalle
Giddalūr
Kangiri
Nellore
Gadag
Ron
Albers conical equal area projection
0
50
100
150 Kilometres
0
50
100 Statute Miles

torial waters of India extend into the sea to a distance of twelve nautical miles
d from the appropriate base line.

THE SOUTHERN STATES, INDIAN ISLANDS AND SRI LANKA


Maharashtra
Karnataka
Andhra Pradesh
Madhya Pradesh
Orissa
Medak
Nizamabad
Nalgonda
Khammam
East Godavari
West Godavari
Krishna
Guntur
Kurnool
Anantapur
Cuddapah
Nellore
Sholapur
Satara
Sangli
Kolhapur
Belgaum
North Kanara
Goa
Gulbarga
Bidar
Raichur
Bellary
Hyderabad
Secunderabad
Warangal
Vijayawada
Rajahmundry
Kakinada
Visakhapatnam
Machilipatnam
Eluru
Tenali
Ongole
Chitradurga
Shimoga
Davangere
Hubli
Dharwar
Bay of Bengal
Godavari Delta
Krishna Delta
Northern Circars
Coco Islands

KARNATAKA

Area: 191,773 sq. kms
Population: 29,299,014
Density: 153/sq. km
Cities with over 1 million population: Bangalore.
Cities with over 1 lakh population:
Hubli-Dharwar, Mysore, Mangalore, Belgaum, Gulbarga, Bellary, Davangere, Bijapur, Shimoga, Bhadravati and Kolar Gold Fields

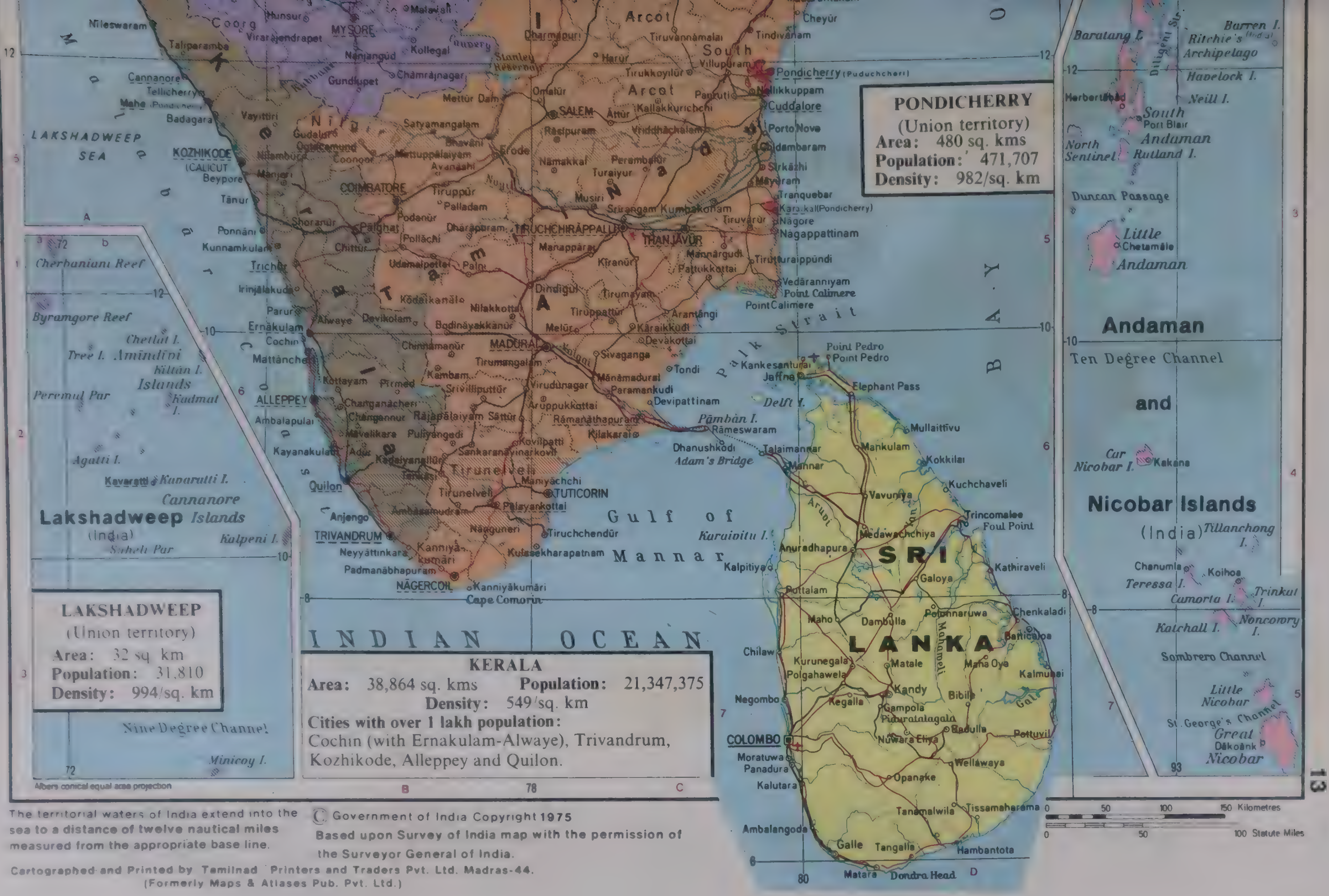
ANDHRA PRADESH

Area: 276,754 sq. km **Population:** 43,502,708
Density: 157/sq. km
Cities over 1 million population: Hyderabad.
Cities over 1 lakh population: Visakhapatnam, Vijayawada, Guntur, Warangal, Rajahmundry, Kakinada, Kurnool, Nellore, Eluru, Nizamabad, Machilipatnam and Tenali.

TAMIL NADU

Area: 130,069 sq. kms **Population:** 41,199,168
Density: 317/sq. km
Cities with over 1 million population: Madras.
Cities with over 1 lakh population: Madurai, Coimbatore, Salem, Tiruchirappalli, Tuticorin, Nagercoil, Thanjavur, Vellore, Dindigul, Singanallur, Tiruppur, Kumbakonam, Kanchipuram, Tirunelveli, Erode, and Cuddalore.

ANDAMAN & NICOBAR ISLANDS (Union territory)
Area:
Andamans - 6,340 sq. kms
Nicobars - 1,953 sq. kms


Coorg
MYSORE
Kollegal
Nanjangud
Chamrajnagar
Gundlupet
Hunsur
Virarajendrapet
Taliparamba
Nileswaram
Cannanore
Tellicherry
Mahe
Badagara
LAKSHADWEEP SEA
KOZHIKODE (CALICUT)
Beypore
Tanur
Ponnani
Kunnamkulam
Trichur
Irinjalakuda
Parur
Ernakulam
Cochin
Mattanchery
ALLEPPEY
Ambalapulai
Kayanakulam
Quilon
Anjengo
TRIVANDRUM
Neyyattinkara
Padmanabhapuram
NAGERCOIL
Kanniyakumari
Cape Comorin
Nilgiri
Gudalur
Ootacamund
Coonoor
COIMBATORE
Palghat
Pollachi
Palni
Tiruppur
Erode
SALEM
Dharmapuri
Arcot
South Arcot
Tiruvannamalai
Tindivanam
Villupuram
Pondicherry (Puduchcheri)
Cuddalore
Porto Novo
Chidambaram
Sirkazhi
Mayuram
Tranquebar
Karaikal (Pondicherry)
Nagore
Nagappattinam
Tiruvarur
THANJAVUR
Kumbakonam
Srirangam
TIRUCHCHIRAPPALLI
Dindigul
MADURAI
Virudunagar
Sivaganga
Ramanathapuram
Rameswaram
Pamban I.
Dhanushkodi
Adam's Bridge
Kovilpatti
Tirunelveli
TUTICORIN
Palayankottai
Tiruchchendur
Kulasekharapatnam
Point Calimere
Vedaranniyam
Palk Strait
BAY
Gulf of Mannar
Karaivitu I.
INDIAN OCEAN
SRI LANKA
Point Pedro
Jaffna
Kankesanturai
Elephant Pass
Delft I.
Talaimannar
Mannar
Mullaittivu
Mankulam
Kokkilai
Kuchchaveli
Vavuniya
Trincomalee
Foul Point
Medawachchiya
Anuradhapura
Kalpitiya
Puttalam
Kathiraveli
Galoya
Polonnaruwa
Chenkaladi
Batticaloa
Dambulla
Maho
Chilaw
Kurunegala
Polgahawela
Matale
Maha Oya
Kalmunai
Mahaweli
Kandy
Bibile
Negombo
Kegalla
Gampola
Puduraialagala
Badulla
Pottuvil
COLOMBO
Nuwara Eliya
Moratuwa
Panadura
Kalutara
Wellawaya
Opanake
Tanamalwila
Tissamaharama
Ambalangoda
Galle
Tangalla
Hambantota
Matara
Dondra Head
Cherbaniani Reef
Byramgore Reef
Chetlat I.
Tree I.
Amindivi
Kiltan I.
Islands
Peremul Par
Kadmat I.
Agatti I.
Kavaratti
Kavaratti I.
Cannanore
Lakshadweep Islands (India)
Kalpeni I.
Suheli Par
Nine Degree Channel
Minicoy I.
Baratang I.
Barren I.
Ritchie's Archipelago
Havelock I.
Neill I.
Herbertabad
South Andaman
Port Blair
North Sentinel
Rutland I.
Duncan Passage
Little Andaman
Chetamale
Andaman
Ten Degree Channel
and
Car Nicobar I.
Kakana
Nicobar Islands (India)
Tillanchong I.
Chanumla
Koihoa
Teressa I.
Camorta I.
Trinkut I.
Katchall I.
Nancowry I.
Sombrero Channel
Little Nicobar
St. George's Channel
Great Nicobar
Dakoank
Albers conical equal area projection
0 50 100 150 Kilometres
0 50 100 Statute Miles
12
10
8
6
72
78
80
93
A
B
C
D

PONDICHERRY
(Union territory)
Area: 480 sq. kms
Population: 471,707
Density: 982/sq. km

LAKSHADWEEP
(Union territory)
Area: 32 sq. km
Population: 31,810
Density: 994/sq. km

KERALA
Area: 38,864 sq. kms **Population:** 21,347,375
Density: 549/sq. km
Cities with over 1 lakh population:
Cochin (with Ernakulam-Alwaye), Trivandrum, Kozhikode, Alleppey and Quilon.

The territorial waters of India extend into the sea to a distance of twelve nautical miles measured from the appropriate base line.

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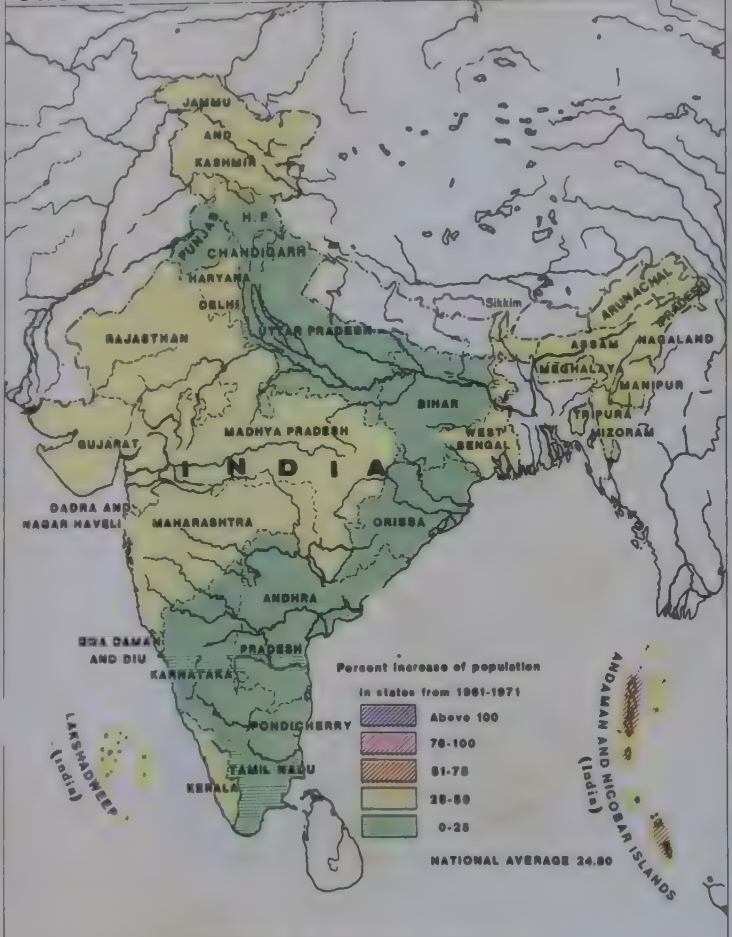
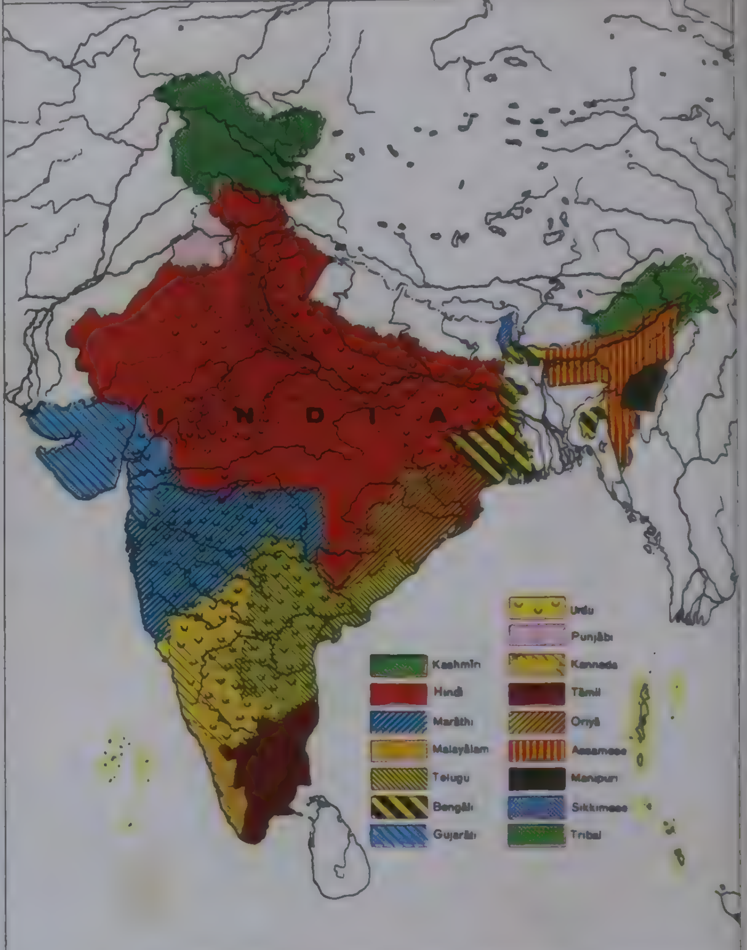
GROWTH OF POPULATION

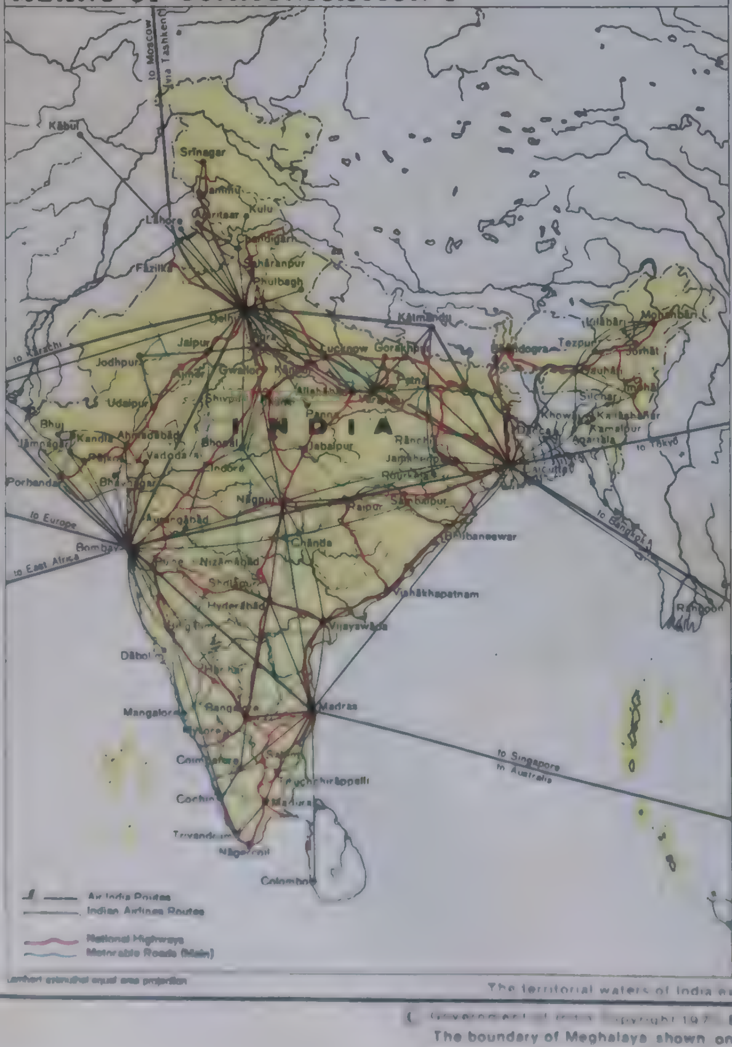

JAMMU
AND
KASHMIR
H.P.
PUNJAB
CHANDIGARH
HARYANA
DELHI
UTTAR PRADESH
RAJASTHAN
Sikkim
ARUNACHAL PRADESH
ASSAM
NAGALAND
MEGHALAYA
MANIPUR
TRIPURA
MIZORAM
BIHAR
WEST BENGAL
GUJARAT
MADHYA PRADESH
INDIA
DADRA AND NAGAR HAVELI
MAHARASHTRA
ORISSA
ANDHRA PRADESH
GOA DAMAN AND DIU
KARNATAKA
PONDICHERRY
TAMIL NADU
KERALA
LAKSHADWEEP (India)
ANDAMAN AND NICOBAR ISLANDS (India)
Percent increase of population
in states from 1961-1971
Above 100
76-100
51-75
26-50
0-25
NATIONAL AVERAGE 24.80

Statistical data and administrative divisions in 1971.

LANGUAGES

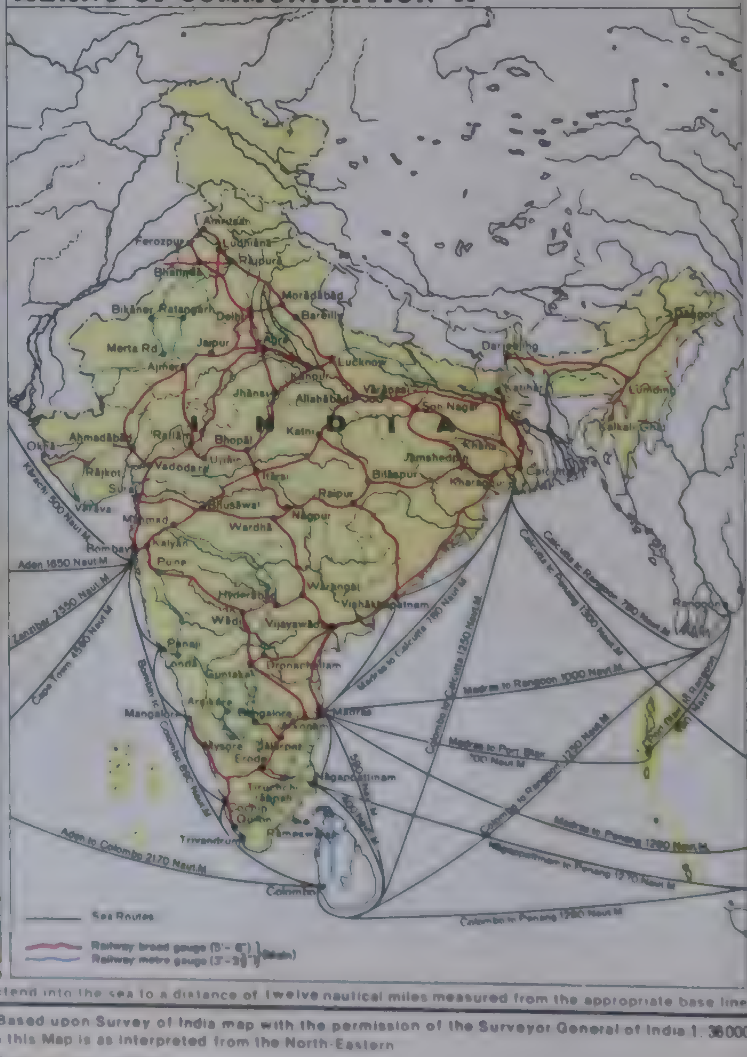

INDIA
Kashmiri
Hindi
Marāthi
Malayālam
Telugu
Bengāli
Gujarāti
Urdu
Punjābi
Kannada
Tāmil
Oriyā
Assamese
Manipuri
Sikkimese
Tribal

MEANS OF COMMUNICATION I


to Moscow via Tashkent
Kābul
Srinagar
Jammu
Kulu
Lahore
Amritsar
Chandigarh
Fāzilka
Saharanpur
Phulbagh
Delhi
Kātmāndu
Jaipur
to Karachi
Jodhpur
Lucknow
Gorakhpur
Bāgdogra
Tezpur
Jorhāt
Mohanbāri
Gauhāti
Silchar
Udaipur
Gwalior
Kānpur
Allahābād
Patna
Bhuj
Kandla
Ahmadābād
Jāmnagar
Vadodara
Bhopāl
Indore
Jabalpur
Rānchi
Agartala
Calcutta
to Tokyo
Porbandar
Bhāvnagar
Nāgpur
Raipur
Aurangābād
to Europe
Bombay
to East Africa
Chānda
Bhubaneswar
to Bangkok
Rangoon
Pune
Hyderābād
Vishākhapatnam
Vijayawāda
Dābolim
Mangalore
Bangalore
Madras
to Singapore
to Australia
Coimbatore
Tiruchirāpalli
Cochin
Madurai
Trivandrum
Nāgercoil
Colombo
Air India Routes
Indian Airlines Routes
National Highways
Motorable Roads (Main)

Lambert azimuthal equal area projection

MEANS OF COMMUNICATION II


Amritsar
Ferozpur
Ludhiāna
Rājpura
Bhatinda
Morādābād
Bikāner
Delhi
Bareilly
Darjeeling
Dibrugarh
Merta Rd.
Jaipur
Agra
Ajmer
Lucknow
Jhānsi
Kānpur
Vārānasi
Allahābād
Son Nagar
Katihār
Lumding
Ahmadābād
Ratlām
Bhopāl
Katni
INDIA
Okha
Rājkot
Vadodara
Ujjain
Itārsi
Jamshedpur
Calcutta
Surat
Bhusāwal
Bilāspur
Kharagpur
Veraval
Raipur
Manmad
Nāgpur
Wardhā
Karāchi 500 Naut.M.
Aden 1650 Naut.M.
Bombay
Kalyān
Pune
Zanzibar 2550 Naut.M.
Cape Town 4580 Naut.M.
Hyderābād
Wāri
Vijayawāda
Warangal
Vishākhapatnam
Panaji
Londa
Guntakal
Dronāchalam
Madras
Mangalore
Bangalore
Mysore
Jālārpet
Erode
Cochin
Quilon
Tiruchchirāppalli
Nāgapattinam
Rāmeswaram
Trivandrum
Colombo
Calcutta to Rangoon 780 Naut.M.
Calcutta to Penang 1300 Naut.M.
Madras to Calcutta 780 Naut.M.
Madras to Calcutta 1250 Naut.M.
Colombo to Calcutta
Madras to Rangoon 1000 Naut.M.
Madras to Port Blair 700 Naut.M.
Colombo to Rangoon 1250 Naut.M.
Madras to Penang 1280 Naut.M.
Rangoon
Port Blair
Bombay to Colombo 890 Naut.M.
Aden to Colombo 2170 Naut.M.
Visākhapatnam to Penang 1270 Naut.M.
Colombo to Penang 1280 Naut.M.
Sea Routes
Railway broad gauge (5'-6")
Railway metre gauge (3'-3⅜")
(Main)

The territorial waters of India extend into the sea to a distance of twelve nautical miles measured from the appropriate base line

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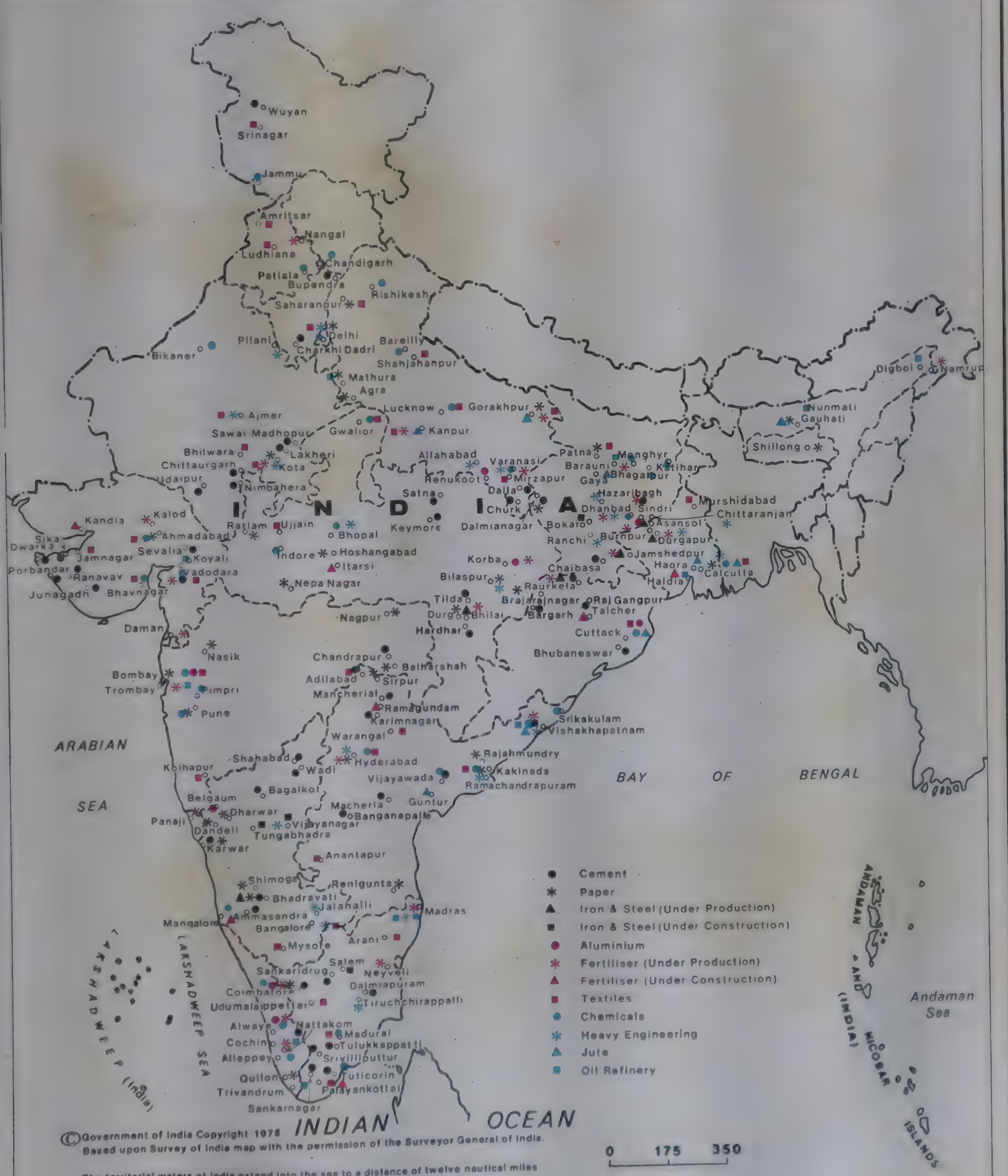
The boundary of Meghalaya shown on this Map is as interpreted from the North-Eastern
Areas (Reorganisation) Act, 1971, but has yet to be verified


Wuyan
Srinagar
Jammu
Amritsar
Nangal
Ludhiana
Chandigarh
Patiala
Bupendra
Rishikesh
Saharanpur
Delhi
Pilani
Charkhi Dadri
Bareilly
Shahjahanpur
Bikaner
Mathura
Agra
Lucknow
Gorakhpur
Digboi
Namrup
Nunmati
Gauhati
Shillong
Ajmer
Sawai Madhopur
Gwalior
Kanpur
Bhilwara
Lakheri
Chittaurgarh
Kota
Udaipur
Nimbahera
Allahabad
Varanasi
Renukoot
Mirzapur
Patna
Monghyr
Barauni
Katihar
Bhagalpur
Gaya
Hazaribagh
Satna
Dalla
Churk
Dhanbad
Sindri
Murshidabad
Chittaranjan
INDIA
Kandia
Kalod
Sika
Dwarka
Ahmadabad
Ratlam
Ujjain
Bhopal
Keymore
Dalmianagar
Bokaro
Asansol
Ranchi
Burnpur
Durgapur
Jamnagar
Sevalia
Koyali
Indore
Hoshangabad
Porbandar
Ranavav
Vadodara
Itarsi
Korba
Jamshedpur
Haora
Calcutta
Junagadh
Bhavnagar
Nepa Nagar
Bilaspur
Chaibasa
Haldia
Raurkela
Tilda
Brajarajnagar
Raj Gangpur
Nagpur
Durg
Bhilai
Bargarh
Talcher
Daman
Hardhar
Cuttack
Bhubaneswar
Nasik
Chandrapur
Ballarshah
Bombay
Adilabad
Sirpur
Trombay
Pimpri
Mancherial
Pune
Ramagundam
Karimnagar
Srikakulam
Vishakhapatnam
Warangal
ARABIAN
Rajahmundry
Shahabad
Hyderabad
Kolhapur
Wadi
Kakinada
Vijayawada
Ramachandrapuram
BAY OF BENGAL
SEA
Bagalkot
Belgaum
Guntur
Macherla
Dharwar
Banganapalle
Panaji
Vijayanagar
Dandeli
Tungabhadra
Karwar
Anantapur
Shimoga
Renigunta
Bhadravati
Jalahalli
Madras
Ammasandra
Mangalore
Bangalore
Arani
Mysore
Salem
Neyveli
Sankaridrug
Dalmiapuram
Coimbatore
Udumalaippettai
Tiruchchirappalli
Alwaye
Nattakom
Madurai
Cochin
Tulukkappatti
Alleppey
Srivilliputtur
Quilon
Tuticorin
Trivandrum
Palayankottai
Sankarnagar
LAKSHADWEEP SEA
LAKSHADWEEP (India)
INDIAN OCEAN
ANDAMAN AND NICOBAR ISLANDS (INDIA)
Andaman Sea
● Cement
✱ Paper
▲ Iron & Steel (Under Production)
■ Iron & Steel (Under Construction)
● Aluminium
✱ Fertiliser (Under Production)
▲ Fertiliser (Under Construction)
■ Textiles
● Chemicals
✱ Heavy Engineering
▲ Jute
■ Oil Refinery
0 175 350

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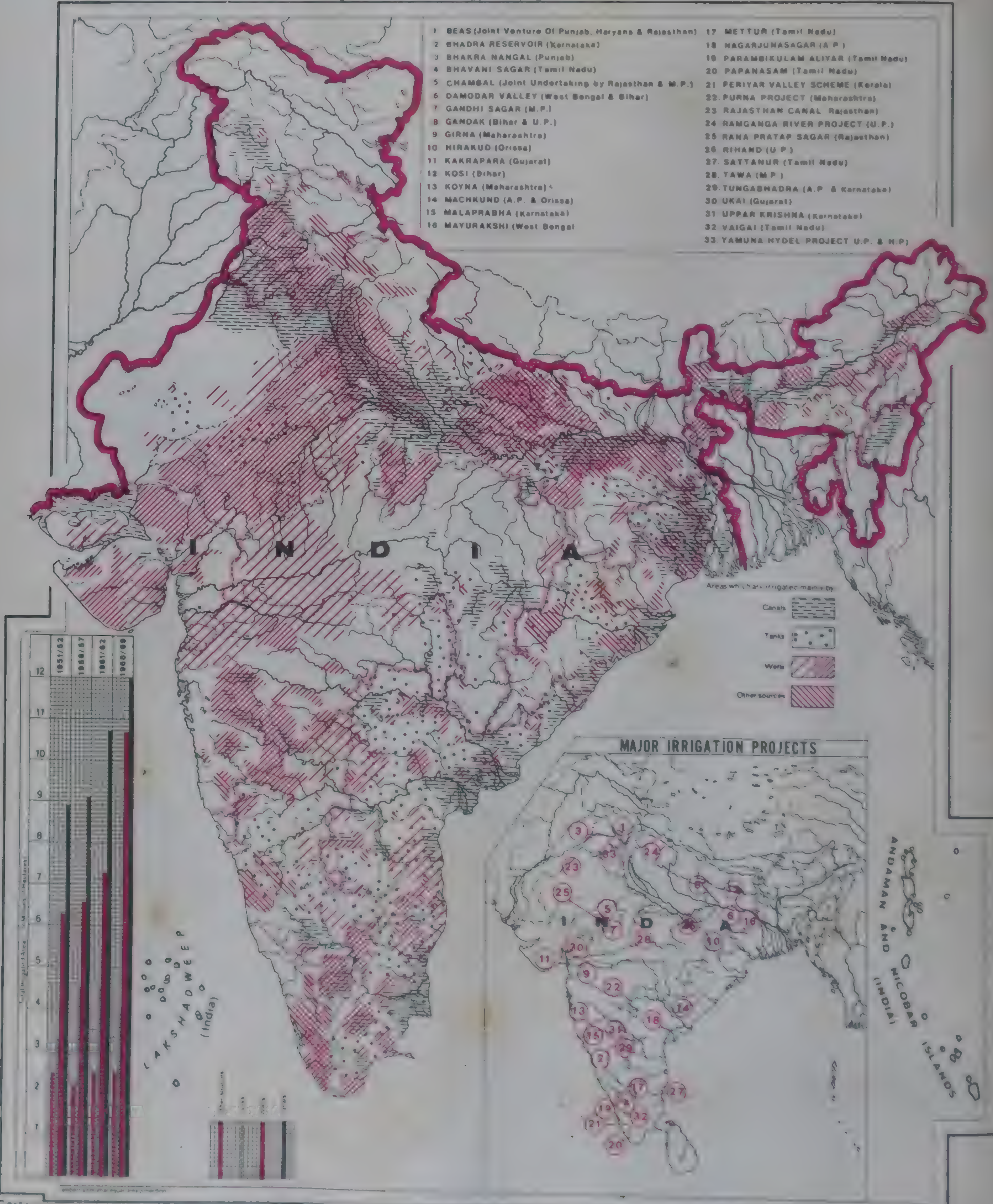
The territorial waters of India extend into the sea to a distance of twelve nautical miles measured from the appropriate base line.

The boundary of Meghalaya shown on this Map is as interpreted from the North-Eastern Areas (Reorganisation) Act, 1971, but has yet to be verified.

INDIA-IRRIGATION


INDIA
Areas which are irrigated mainly by
Canals
Tanks
Wells
Other sources
MAJOR IRRIGATION PROJECTS
INDIA
LAKSHADWEEP (India)
ANDAMAN AND NICOBAR ISLANDS (INDIA)
1951/52
1956/57
1961/62
1968/69
12
11
10
9
8
7
6
5
4
3
2
1

1 BEAS (Joint Venture Of Punjab, Haryana & Rajasthan)
2 BHADRA RESERVOIR (Karnataka)
3 BHAKRA NANGAL (Punjab)
4 BHAVANI SAGAR (Tamil Nadu)
5 CHAMBAL (Joint Undertaking by Rajasthan & M.P.)
6 DAMODAR VALLEY (West Bengal & Bihar)
7 GANDHI SAGAR (M.P.)
8 GANDAK (Bihar & U.P.)
9 GIRNA (Maharashtra)
10 HIRAKUD (Orissa)
11 KAKRAPARA (Gujarat)
12 KOSI (Bihar)
13 KOYNA (Maharashtra)
14 MACHKUND (A.P. & Orissa)
15 MALAPRABHA (Karnataka)
16 MAYURAKSHI (West Bengal
17 METTUR (Tamil Nadu)
18 NAGARJUNASAGAR (A.P.)
19 PARAMBIKULAM ALIYAR (Tamil Nadu)
20 PAPANASAM (Tamil Nadu)
21 PERIYAR VALLEY SCHEME (Kerala)
22. PURNA PROJECT (Maharashtra)
23 RAJASTHAN CANAL Rajasthan)
24 RAMGANGA RIVER PROJECT (U.P.)
25 RANA PRATAP SAGAR (Rajasthan)
26 RIHAND (U.P.)
27. SATTANUR (Tamil Nadu)
28. TAWA (M.P.)
29. TUNGABHADRA (A.P. & Karnataka)
30 UKAI (Gujarat)
31. UPPAR KRISHNA (Karnataka)
32 VAIGAI (Tamil Nadu)
33. YAMUNA HYDEL PROJECT U.P. & H.P)

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Madras 44 (Formerly Maps & Atlases Pub. Pvt. Ltd.)

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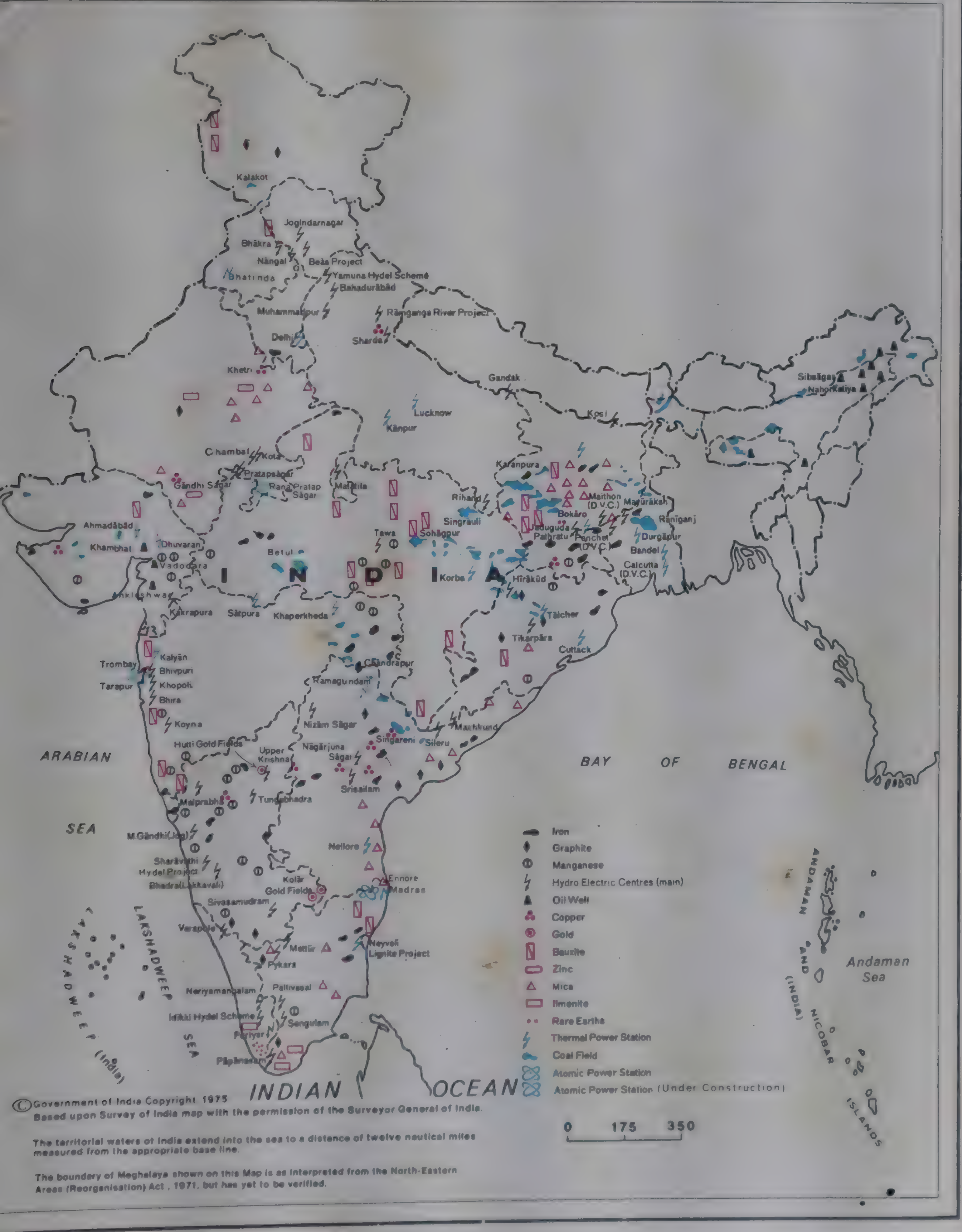
INDIA-MINERALS AND POWER


Kalakot
Jogindarnagar
Bhākra
Nāngal
Beās Project
Bhatinda
Yamuna Hydel Scheme
Bahadurābād
Muhammadpur
Rāmganga River Project
Delhi
Sharda
Khetri
Gandak
Lucknow
Kānpur
Kosi
Sibsāgar
Nahorkatiya
Chambal
Kota
Pratapsāgar
Gandhi Sāgar
Rana Pratap Sāgar
Matātila
Karanpura
Rihand
Singrauli
Maithon (D.V.C.)
Mayūrākshi
Rāniganj
Bokāro
Jaduguda
Pathratu
Panchet (D.V.C.)
Durgāpur
Bandel
Calcutta (D.V.C.)
Ahmadābād
Khambhat
Dhuvaran
Vadodara
Betul
Tawa
Sohāgpur
I N D I A
Korba
Hirākud
Ankleshwar
Kakrapura
Sātpura
Khaperkheda
Tālcher
Tikarpāra
Cuttack
Kalyān
Trombay
Bhivpuri
Khopoli
Tarapur
Bhira
Koyna
Chandrapur
Ramagundam
Nizām Sāgar
Machkund
Singareni
Sileru
Hutti Gold Fields
Upper Krishna
Nāgārjuna Sāgar
Srisailam
Malprabha
Tungabhadra
M.Gāndhi(Jog)
Sharāvathi Hydel Project
Bhadra(Lakkavali)
Nellore
Ennore
Madras
Kolār Gold Fields
Sivasamudram
Verapole
Mettūr
Pykara
Neyveli Lignite Project
Neriyamangalam
Pallivasal
Idikki Hydel Scheme
Sengulam
Periyar
Pāpānāsam
ARABIAN
SEA
BAY OF BENGAL
INDIAN OCEAN
LAKSHADWEEP SEA
LAKSHADWEEP (India)
ANDAMAN AND NICOBAR (INDIA) ISLANDS
Andaman Sea
Iron
Graphite
Manganese
Hydro Electric Centres (main)
Oil Well
Copper
Gold
Bauxite
Zinc
Mica
Ilmenite
Rare Earths
Thermal Power Station
Coal Field
Atomic Power Station
Atomic Power Station (Under Construction)
0
175
350

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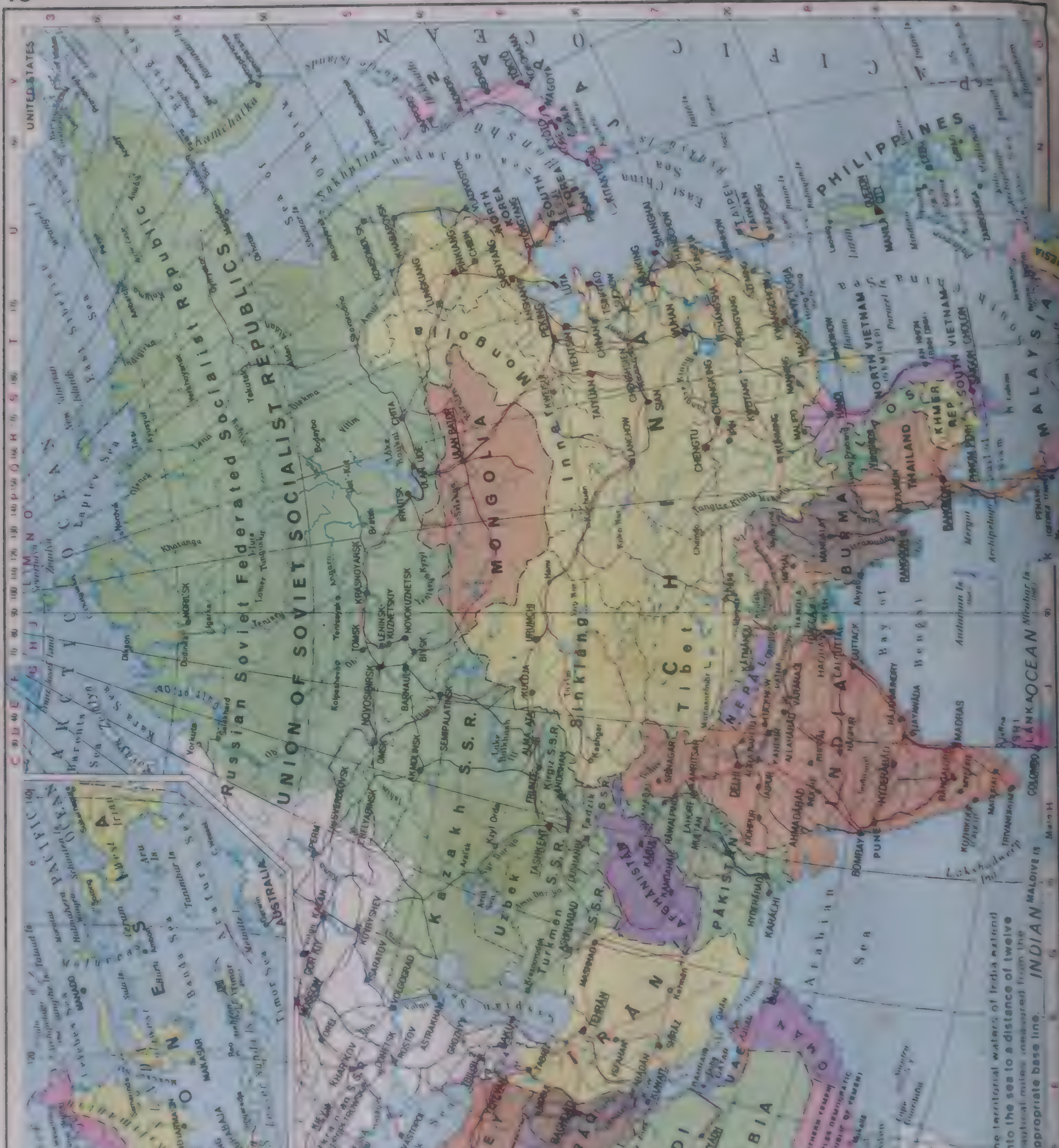
The boundary of Meghalaya shown on this Map is as interpreted from the North-Eastern Areas (Reorganisation) Act, 1971, but has yet to be verified.

ASIA-POLITICAL



UNION OF SOVIET SOCIALIST REPUBLICS
Russian Soviet Federated Socialist Republic
Kazakh S.S.R.
Uzbek S.S.R.
Turkmen S.S.R.
MONGOLIA
CHINA
Inner Mongolia
Sinkiang
Tibet
INDIA
PAKISTAN
AFGHANISTAN
IRAN
IRAQ
SYRIA
TURKEY
SAUDI ARABIA
OMAN
NEPAL
BURMA
THAILAND
LAOS
KHMER REP.
NORTH VIETNAM
SOUTH VIETNAM
MALAYSIA
PHILIPPINES
JAPAN
NORTH KOREA
SOUTH KOREA
TAIWAN
SRI LANKA
EGYPT
SUDAN
ETHIOPIA
SOMALIA
KENYA
TANZANIA
LIBYA
ITALY
GREECE
YUGOSLAVIA
BULG.
ROMANIA
INDONESIA
AUSTRALIA
ARCTIC OCEAN
PACIFIC OCEAN
INDIAN OCEAN
Arabian Sea
Bay of Bengal
South China Sea
East China Sea
Sea of Japan
Sea of Okhotsk
UNITED STATES
MOSCOW
PEKING
NEW DELHI
TOKYO
TEHRAN
KABUL
ULAN BATOR
RANGOON
BANGKOK
COLOMBO
The territorial waters of India extend into the sea to a distance of twelve nautical miles measured from the appropriate base line.

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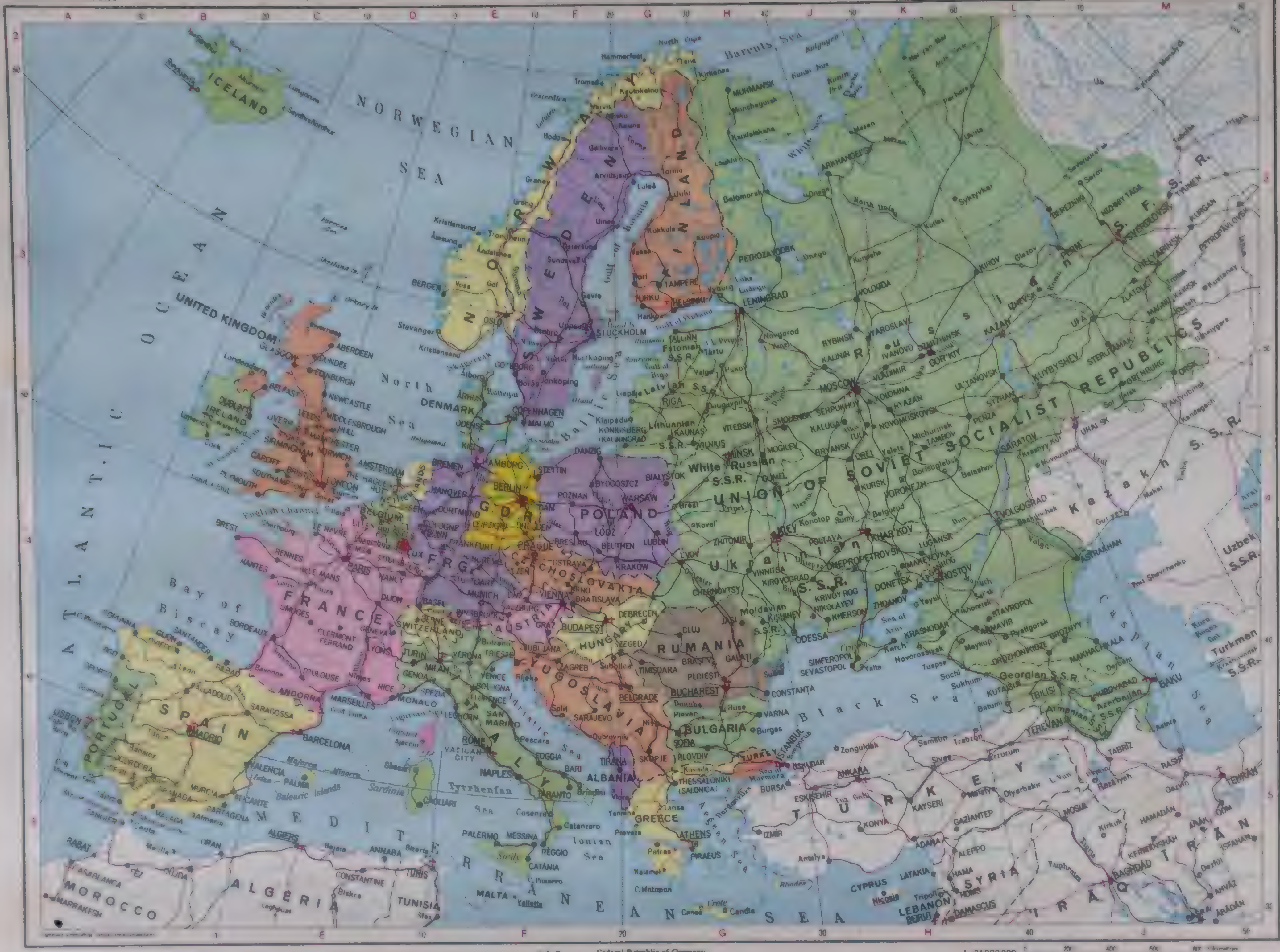
EUROPE-POLITICAL


ICELAND
NORWEGIAN SEA
ATLANTIC OCEAN
UNITED KINGDOM
IRELAND
NORWAY
SWEDEN
FINLAND
North Sea
DENMARK
Baltic Sea
Barents Sea
GDR
FRG
POLAND
CZECHOSLOVAKIA
AUSTRIA
SWITZERLAND
HUNGARY
RUMANIA
YUGOSLAVIA
BULGARIA
ALBANIA
GREECE
ITALY
FRANCE
SPAIN
PORTUGAL
Bay of Biscay
MEDITERRANEAN SEA
Tyrrhenian Sea
Adriatic Sea
Ionian Sea
Aegean Sea
Black Sea
Caspian Sea
TURKEY
SYRIA
LEBANON
CYPRUS
IRAQ
IRAN
MOROCCO
ALGERIA
TUNISIA
UNION OF SOVIET SOCIALIST REPUBLICS
Russian S.F.S.R.
Ukrainian S.S.R.
White Russian S.S.R.
Kazakh S.S.R.
Uzbek S.S.R.
Turkmen S.S.R.
Georgian S.S.R.
Armenian S.S.R.
Azerbaijan S.S.R.
Moldavian S.S.R.
Lithuanian S.S.R.
Latvian S.S.R.
Estonian S.S.R.
LONDON
PARIS
MADRID
LISBON
ROME
BERLIN
WARSAW
PRAGUE
VIENNA
BUDAPEST
BUCHAREST
SOFIA
BELGRADE
TIRANA
ATHENS
ANKARA
MOSCOW
LENINGRAD
KIEV
OSLO
STOCKHOLM
HELSINKI
COPENHAGEN
DUBLIN
BAGHDAD
TEHRAN
DAMASCUS
BEIRUT

F.R.G. Federal Republic of Germany
G.D.R. German Democratic Republic

1: 24 000 000

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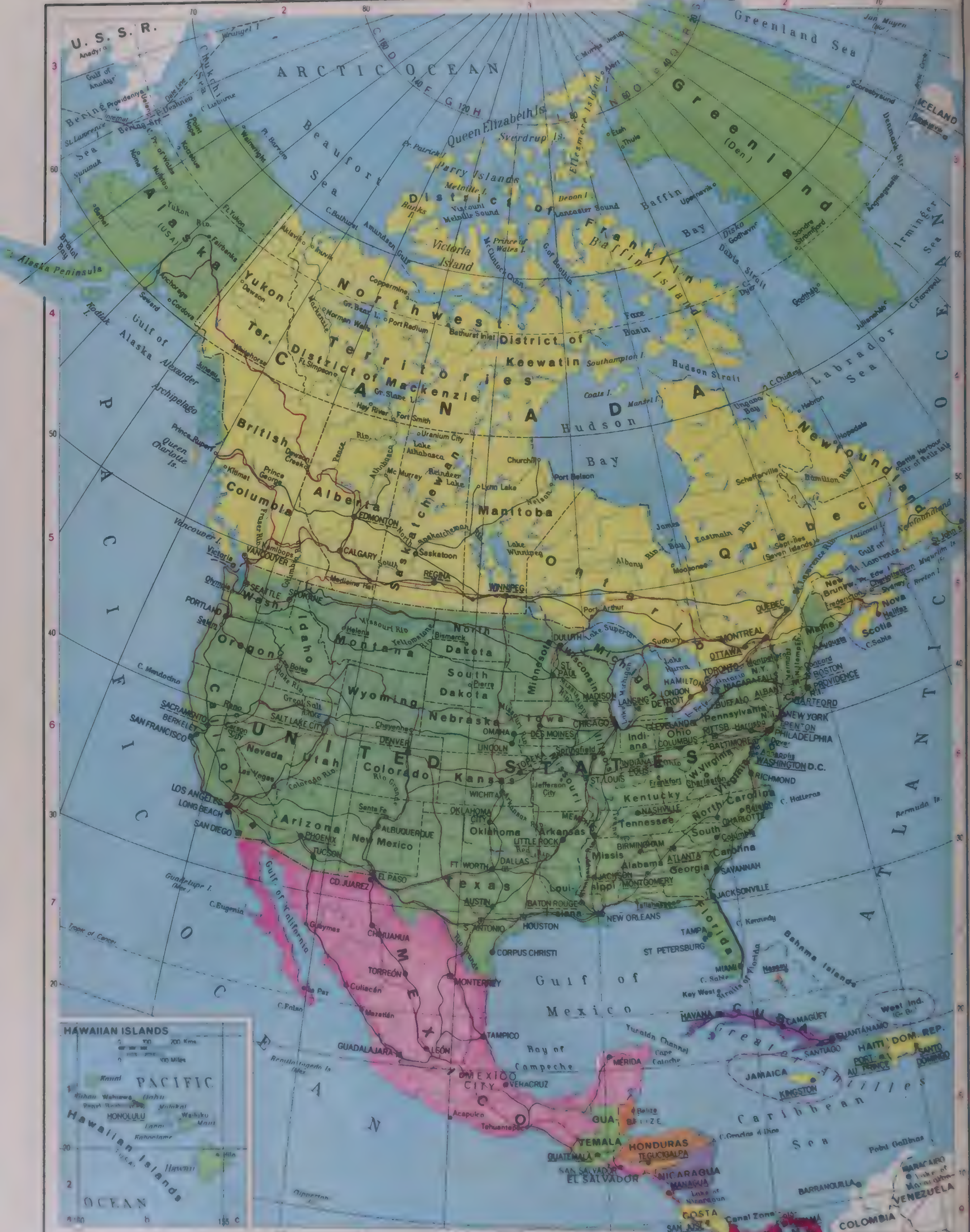
NORTH AMERICA-POLITICAL


U. S. S. R.
ARCTIC OCEAN
Greenland Sea
Greenland (Den)
ICELAND
Reykjavik
Jan Mayen
Scoresbysund
Angmagssalik
Denmark Str.
Irminger Sea
Queen Elizabeth Is.
Sverdrup Is.
Ellesmere Island
Etah
Thule
Parry Islands
Melville I.
Banks I.
Victoria Island
Prince of Wales I.
Devon I.
Lancaster Sound
Baffin Bay
Baffin Island
Upernavik
Disko
Godhavn
Davis Strait
Sondre Stromfjord
Godthaab
Julianehaab
C. Farewell
Beaufort Sea
Bering Sea
Bering Str.
St. Lawrence I.
Gulf of Anadyr
Anadyr
Providenya
Wrangel I.
Chukchi Sea
Pt. Barrow
Wainwright
Point Hope
Kotzebue
Nome
Nunivak
Bethel
Bristol Bay
Alaska Peninsula
Alaska (U.S.A.)
Yukon Rio.
Ft. Yukon
Fairbanks
Anchorage
Cordova
Seward
Kodiak I.
Gulf of Alaska
Alexander Archipelago
Juneau
Yukon
Dawson
Whitehorse
Aklavik
Inuvik
Coppermine
Gr. Bear L.
Norman Wells
Port Radium
Bathurst Inlet
Northwest Territories
District of Franklin
District of Keewatin
District of Mackenzie
Ft. Simpson
Gr. Slave L.
Hay River
Fort Smith
Uranium City
Lake Athabasca
Mc Murray
Reindeer Lake
Lynn Lake
Churchill
Port Nelson
Southampton I.
Coats I.
Mansel I.
Foxe Basin
Hudson Strait
Hudson Bay
James Bay
CANADA
British Columbia
Prince Rupert
Queen Charlotte Is.
Kitimat
Prince George
Dawson Creek
Alberta
EDMONTON
CALGARY
Medicine Hat
Saskatchewan
Saskatoon
REGINA
Manitoba
WINNIPEG
Lake Winnipeg
Ontario
Port Arthur
Sudbury
Moosonee
Albany
Eastmain
Quebec
Schefferville
Ungava Bay
Hebron
Hopedale
Labrador Sea
Newfoundland
Battle Harbour
Str. of Belle Isle
Hamilton
Sept-iles (Seven Islands)
Anticosti I.
Gulf of St. Lawrence
St. John's
New Brunswick
Fredericton
Charlottetown
Pr. Edw. I.
Sydney
Nova Scotia
Halifax
C. Sable
QUEBEC
MONTREAL
OTTAWA
TORONTO
HAMILTON
LONDON
Vancouver I.
Victoria
VANCOUVER
Kamloops
Fraser Rio.
Olympia
SEATTLE
SPOKANE
Wash.
PORTLAND
Salem
Oregon
Idaho
Boise
Snake Rio.
Montana
Helena
Missouri Rio.
Yellowstone
North Dakota
Bismarck
South Dakota
Pierre
Wyoming
Cheyenne
Great Salt Lake
SALT LAKE CITY
Nebraska
OMAHA
Iowa
DES MOINES
Minnesota
DULUTH
ST. PAUL
Lake Superior
Wisconsin
MADISON
Michigan
Lake Michigan
LANSING
DETROIT
Lake Huron
L. Erie
L. Ontario
NIAGARA FALLS
BUFFALO
ALBANY
Maine
Augusta
Vermont
Montpelier
N.H.
Concord
BOSTON
PROVIDENCE
HARTFORD
R.I.
NEW YORK
TRENTON
PHILADELPHIA
Dover
Annapolis
WASHINGTON D.C.
RICHMOND
C. Mendocino
California
SACRAMENTO
BERKELEY
SAN FRANCISCO
Reno
Carson City
Nevada
Las Vegas
Utah
Colorado Rio.
Colorado
DENVER
Rio Grande
Kansas
TOPEKA
LINCOLN
WICHITA
CHICAGO
Springfield
Illinois
Indiana
INDIANAPOLIS
Ohio
COLUMBUS
CLEVELAND
PITTSB.
Pennsylvania
Harrisburg
BALTIMORE
W. Virginia
Charleston
Virginia
Kentucky
Frankfort
NASHVILLE
Tennessee
ST. LOUIS
Jefferson City
Missouri
MEMPHIS
North Carolina
Raleigh
CHARLOTTE
South Carolina
Columbia
C. Hatteras
Bermuda Is.
LOS ANGELES
LONG BEACH
SAN DIEGO
Arizona
PHOENIX
TUCSON
Santa Fe
ALBUQUERQUE
New Mexico
EL PASO
OKLAHOMA CITY
Oklahoma
Arkansas
LITTLE ROCK
Red Rio.
FT. WORTH
DALLAS
Texas
AUSTIN
S. ANTONIO
HOUSTON
CORPUS CHRISTI
Louisiana
BATON ROUGE
NEW ORLEANS
Mississippi
JACKSON
Alabama
BIRMINGHAM
MONTGOMERY
Georgia
ATLANTA
SAVANNAH
JACKSONVILLE
Tallahassee
Florida
C. Kennedy
TAMPA
ST. PETERSBURG
MIAMI
Key West
C. Sable
Straits of Florida
UNITED STATES
PACIFIC OCEAN
ATLANTIC OCEAN
Guadalupe I. (Mex.)
C. Eugenia
Gulf of California
Tropic of Cancer
La Paz
C. Falso
Guaymas
CD. JUAREZ
CHIHUAHUA
TORREÓN
MONTERREY
Culiacán
Mazatlán
MEXICO
TAMPICO
GUADALAJARA
LEÓN
MEXICO CITY
VERACRUZ
Acapulco
Tehuantepec
Revillagigedo Is. (Mex.)
Clipperton I.
Gulf of Mexico
Bay of Campeche
MÉRIDA
Yucatán Channel
Cape Catoche
Bahama Islands
Nassau
CUBA
HAVANA
CAMAGUEY
GUANTÁNAMO
SANTIAGO
Greater Antilles
West Ind. (G. B.)
HAITI
PORT-AU-PRINCE
DOM. REP.
SANTO DOMINGO
JAMAICA
KINGSTON
Caribbean Sea
Belize
GUATEMALA
HONDURAS
TEGUCIGALPA
C. Gracias á Dios
SAN SALVADOR
EL SALVADOR
NICARAGUA
MANAGUA
Lake of Nicaragua
COSTA RICA
SAN JOSÉ
Canal Zone
Colón
PANAMA
Punta Gallinas
BARRANQUILLA
MARACAIBO
Lake of Maracaibo
VENEZUELA
COLOMBIA
HAWAIIAN ISLANDS
0 100 200 Kms.
0 100 Miles
PACIFIC OCEAN
Kauai
Niihau
Oahu
Wahiawa
Pearl Harbour
HONOLULU
Molokai
Wailuku
Maui
Lanai
Kahoolawe
Hawaii
Hilo
Hawaiian Islands
Lambert azimuthal equal area projection
0 200 400 600 800 1000 Kilometres
0 200 400 600 800 Statute Miles

C Connecticut
D Delaware
M Massachusetts
Md Maryland
N.J. New Jersey
N.Y. New York
R.I. Rhode Island

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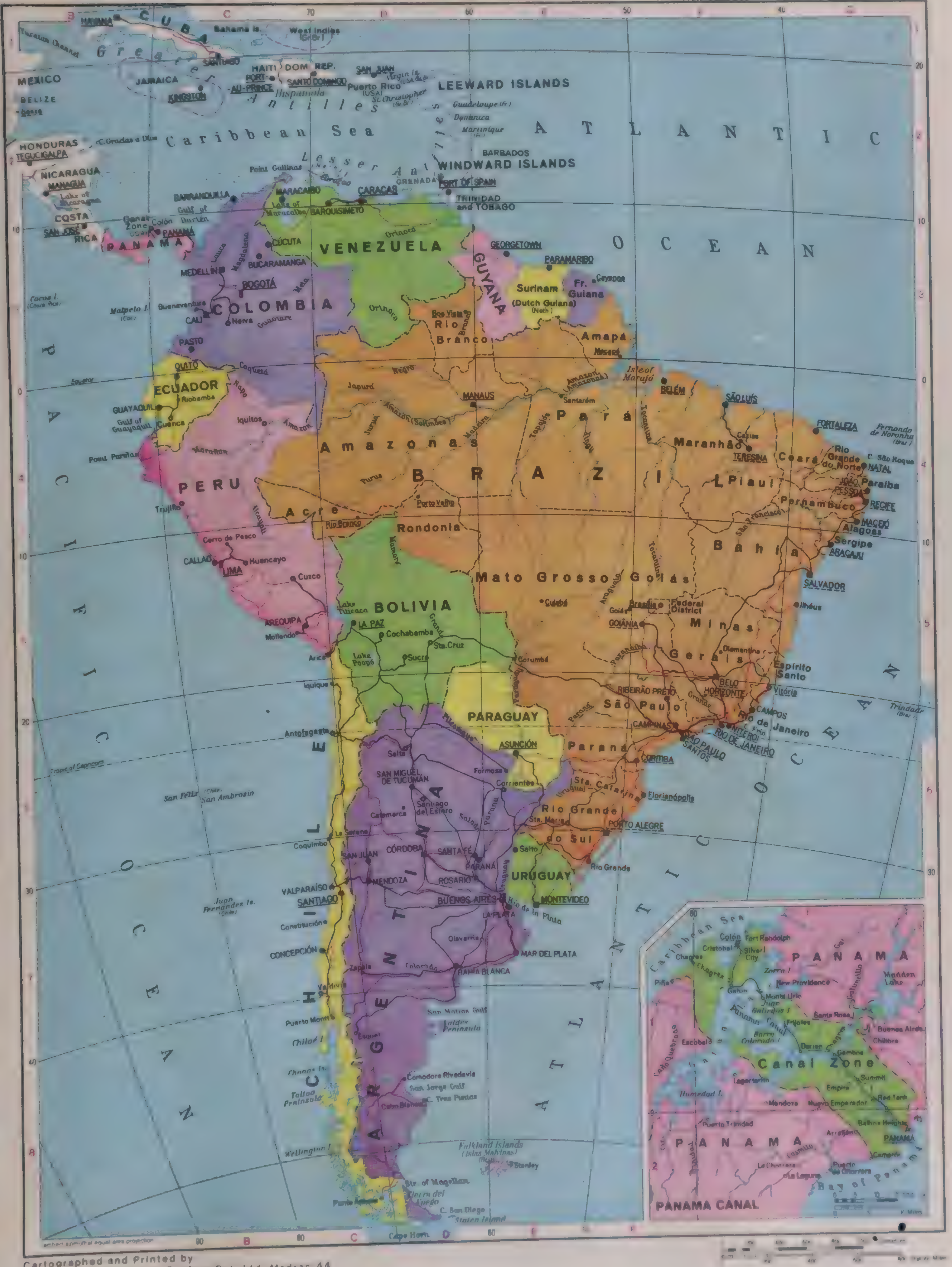
SOUTH AMERICA-POLITICAL


CUBA
HAVANA
SANTIAGO
Bahama Is.
West Indies (Gr.Br.)
Yucatan Channel
Greater Antilles
MEXICO
BELIZE
JAMAICA
KINGSTON
HAITI
PORT-AU-PRINCE
DOM. REP.
SANTO DOMINGO
Hispaniola
SAN JUAN
Puerto Rico (USA)
Virgin Is. (USA & Gr.Br.)
St. Christopher (Gr.Br.)
LEEWARD ISLANDS
Guadeloupe (Fr.)
Dominica
Martinique (Fr.)
Caribbean Sea
ATLANTIC
HONDURAS
TEGUCIGALPA
C. Gracias a Dios
NICARAGUA
MANAGUA
Lake of Nicaragua
COSTA RICA
SAN JOSÉ
Canal Zone (USA)
Colón
PANAMA
Point Gallinas
Lesser Antilles
Curaçao
GRENADA
BARBADOS
WINDWARD ISLANDS
PORT OF SPAIN
TRINIDAD and TOBAGO
BARRANQUILLA
Gulf of Darien
MARACAIBO
Lake of Maracaibo
BARQUISIMETO
CARACAS
CÚCUTA
Orinoco
VENEZUELA
GEORGETOWN
GUYANA
PARAMARIBO
Surinam (Dutch Guiana) (Neth.)
Fr. Guiana
Cayenne
OCEAN
MEDELLÍN
Cauca
Magdalena
BUCARAMANGA
BOGOTÁ
Meta
COLOMBIA
Cocos I. (Costa Rica)
Malpelo I. (Col.)
Buenaventura
CALI
Neiva
Guaviare
Boa Vista
Rio Branco
Amapá
Macapá
PASTO
QUITO
Caquetá
Napo
Equator
ECUADOR
Riobamba
GUAYAQUIL
Gulf of Guayaquil
Cuenca
Iquitos
Amazon
Japurá
Negro
Amazon (Amazonas)
Isle of Marajó
BELÉM
SÃO LUÍS
MANAUS
Santarém
Amazon (Solimões)
Juruá
Madeira
Tapajós
Xingu
Tocantins
Pará
Maranhão
Caxias
FORTALEZA
Fernando de Noronha (Braz.)
TERESINA
Ceará
Rio Grande do Norte
C. São Roque
NATAL
JOÃO PESSOA
Paraíba
Pernambuco
RECIFE
MACEIÓ
Alagoas
Sergipe
ARACAJU
Point Pariñas
Marañon
Amazonas
Purus
PERU
BRAZIL
Piauí
Trujillo
Acre
Porto Velho
Rio Branco
Rondonia
São Francisco
Bahia
Cerro de Pasco
CALLAO
LIMA
Huancayo
Ucayali
Cuzco
Mamoré
Mato Grosso
Goiás
Tocantins
Araguaia
SALVADOR
Ilhéus
Lake Titicaca
BOLIVIA
LA PAZ
Cochabamba
Grande
Sta. Cruz
Cuiabá
Brasília
Federal District
Goiás
GOIÂNIA
Minas
Gerais
AREQUIPA
Mollendo
Lake Poopó
Sucre
Corumbá
Paranaíba
Diamantina
Espírito Santo
Arica
Iquique
RIBEIRÃO PRETO
BELO HORIZONTE
Vitória
Trindade (Braz.)
São Paulo
Grande
Paraná
CAMPOS
Rio de Janeiro
PARAGUAY
CAMPINAS
C. Frio
NITERÓI
RIO DE JANEIRO
Antofagasta
Pilcomayo
ASUNCIÓN
Paraná
SÃO PAULO
SANTOS
CURITIBA
Tropic of Capricorn
Salta
Formosa
Corrientes
Sta. Catarina
Florianópolis
SAN MIGUEL DE TUCUMÁN
Santiago del Estero
Uruguai
San Félix (Chile)
San Ambrosio
Catamarca
Salado
Paraná
Rio Grande
Sta. Maria
do Sul
PORTO ALEGRE
La Serena
Coquimbo
SAN JUAN
CÓRDOBA
SANTA FÉ
PARANÁ
Uruguay
Salto
Rio Grande
URUGUAY
MENDOZA
ROSARIO
VALPARAÍSO
SANTIAGO
BUENOS AIRES
MONTEVIDEO
Rio de la Plata
LA PLATA
Juan Fernandez Is. (Chile)
Constitución
Olavarria
CONCEPCIÓN
MAR DEL PLATA
Zapala
Colorado
BAHÍA BLANCA
Valdivia
CHILE
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Miles

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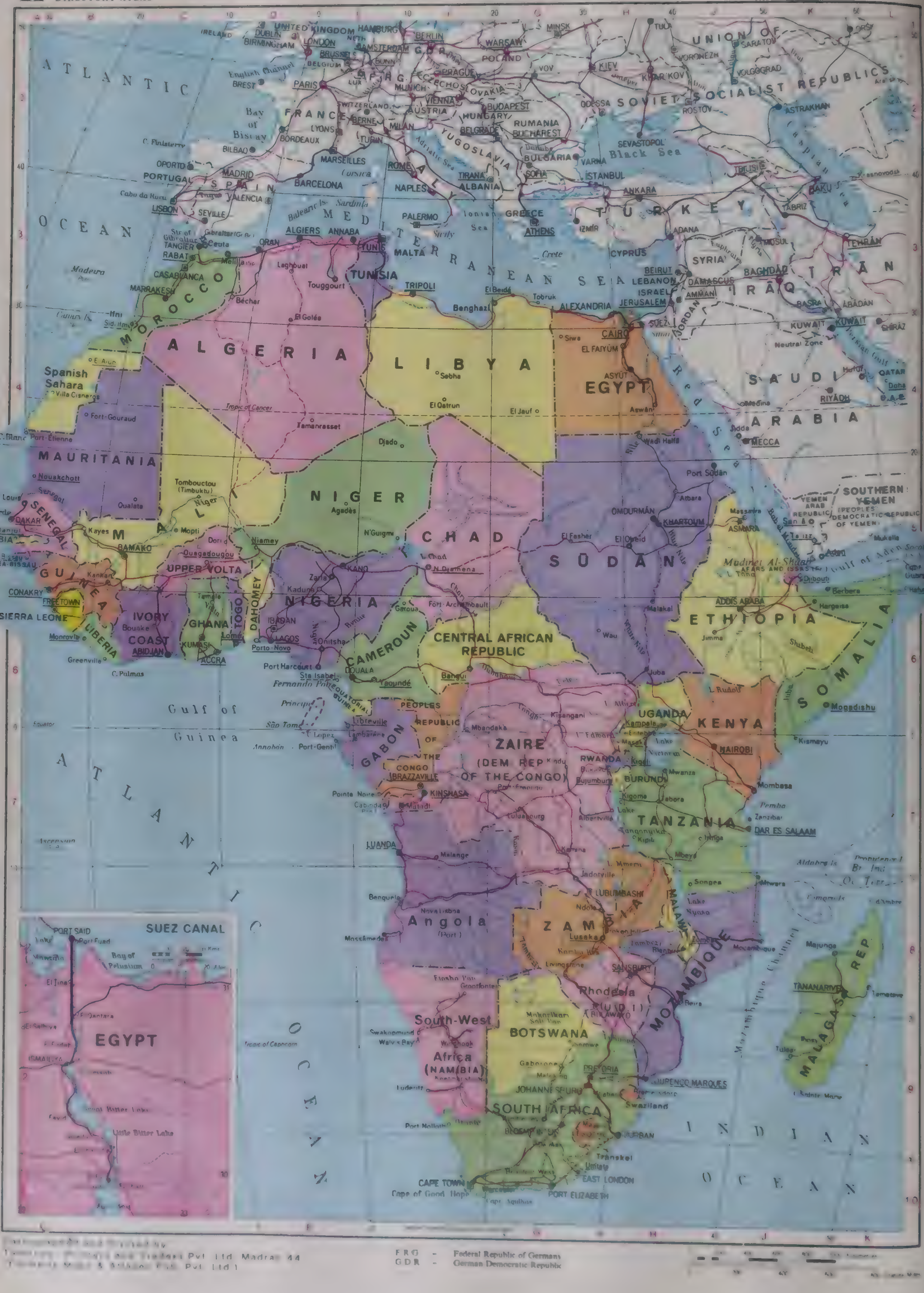
AFRICA-POLITICAL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Great Bitter Lake
Little Bitter Lake

FRG - Federal Republic of Germany
GDR - German Democratic Republic

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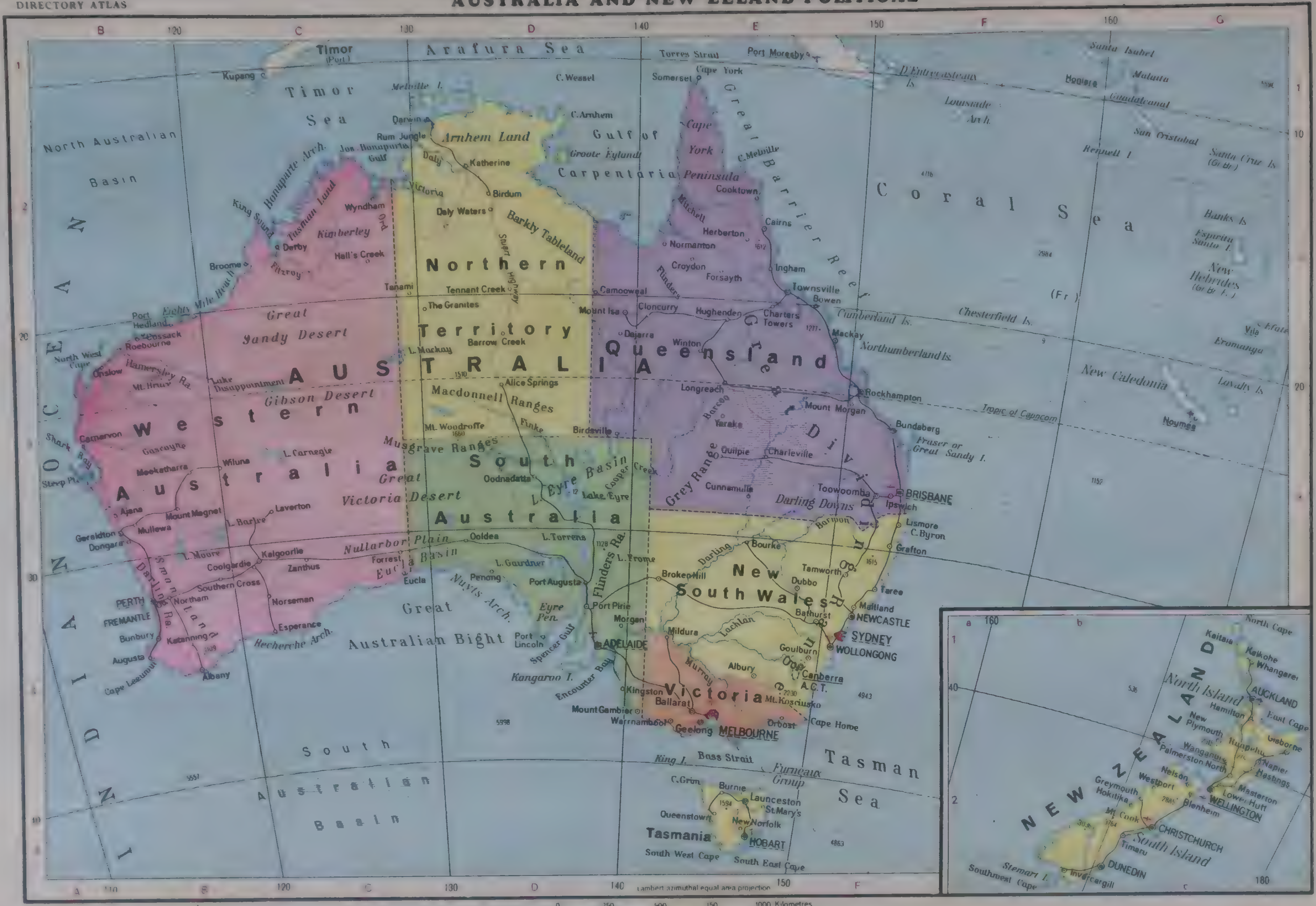
AUSTRALIA AND NEW ZELAND-POLITICAL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0 250 500 750 1000 Kilometres
0 250 500 750 Statute Miles

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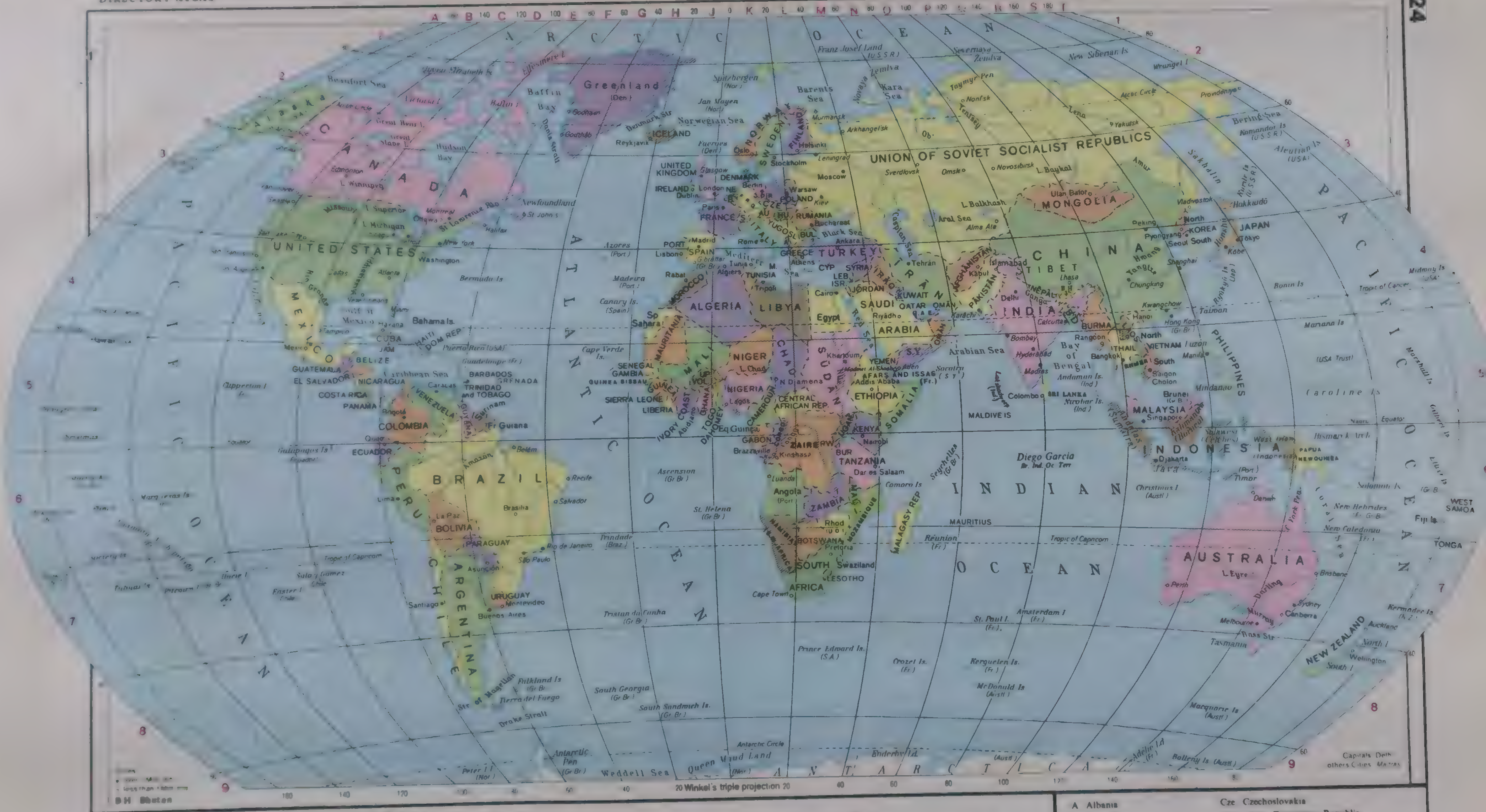
WORLD-POLITICAL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NEW ZEALAND
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others Cities Madras
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MEMBERS OF THE UNITED NATIONS ORGANIZATION (U N O) (As of Sept 17, 1974)

Afghanistan
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Algeria
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Austria
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Bahrain
Bangladesh
Barbados
Belgium
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Ecuador
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Ethiopia
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Nicaragua
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F R G	Federal Republic of Germany
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Rw	Rwanda
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Ugan	Uganda

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The territorial waters of India extend into the sea to a distance of twelve nautical miles measured from the appropriate base line.

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This index has been arranged alphabetically and comprises all names of India, Nepal and Sri Lanka appearing on Map pages 3 to 13 and selected names of the other countries. Location of a place or feature is indicated in the index against each name with reference to page number of the atlas and then to the rectangle—formed on the map by the intersection of latitude and longitude—within which the name appears.

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Vinukonda 12 CD 2
Viramgam 10 BC 2
Virarajendrapet 13 AB 4
Virginia 20 LM 6
Virudunagar 13 BC 6
Viscount Melville Sound 20 HJ 2
Vishakhapatnam 12 E 2
Visnagar 10 C 2
Vita 10 D 5
Vitoria 21 FG 6
Vizianagaram 12 EF 1
Vladivostok 18 O 5
Volga 19 J 4
Volgograd 19 J 4
Vriddhachalam 13 C 5

Wadhwan 10 B 2
Wadi Halfa 22 H 4
Wainganga 11 F 3
Wan 11 F 3
Wankaner 10 B 2
Wanparti 12 C 2
Warangal 12 CD 1-2
Wardha 11 F 3
Wardha 11 F 3
Warora 11 F 3
Washington 20 GH 5
Washington 20 M 6
Wellawaya 13 D 7
Wellington 23 c 2
West Bengal 6 CD 4
West Dinajpur 6 D 3
Western Ghats 2 DE 5-6
West Godavari 12 D 2
West Indies 20 MN 7
West Irian 18 e 3
West Khandesh 10 CD 3
West Nimar 8 B 4
West Samoa 24 ST 6
West Virginia 20 LM 6
White Nile 22 H 6
White Russian Soviet Socialist Republic 19 GH 3
Windhok 22 F
Winnipeg 20 K 4
Wollongong 23 F 4
Wyndham C 2

Yadgir 12 B 2
Yamuna 5 A 1
Yanam 12 E 2
Yangi Dawan 3 D 2
Yaounde 22 F 6
Yaraka 23 E 3
Yavatmal 11 F 3
Yellow = Hwang 18 M 6
Yemen 18 E 8
Yeotmal 11 F 3
Yokohama 18 OP 6
Yugoslavia 19 FG 4
Yukon Territory 20 F 3

Zagreb 19 F 4
Zahirabad 12 B 2
Zaire 22 FG 6-7
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Zambia 22 GH 8
Zanthus 23 C 4
Zanzibar 22 HJ 7
Zapala 21 CD 7
Zaria 22 E 5
Zaskar 3 C 3
Zaskar 3 C 2-3
Zomba 22 H 8

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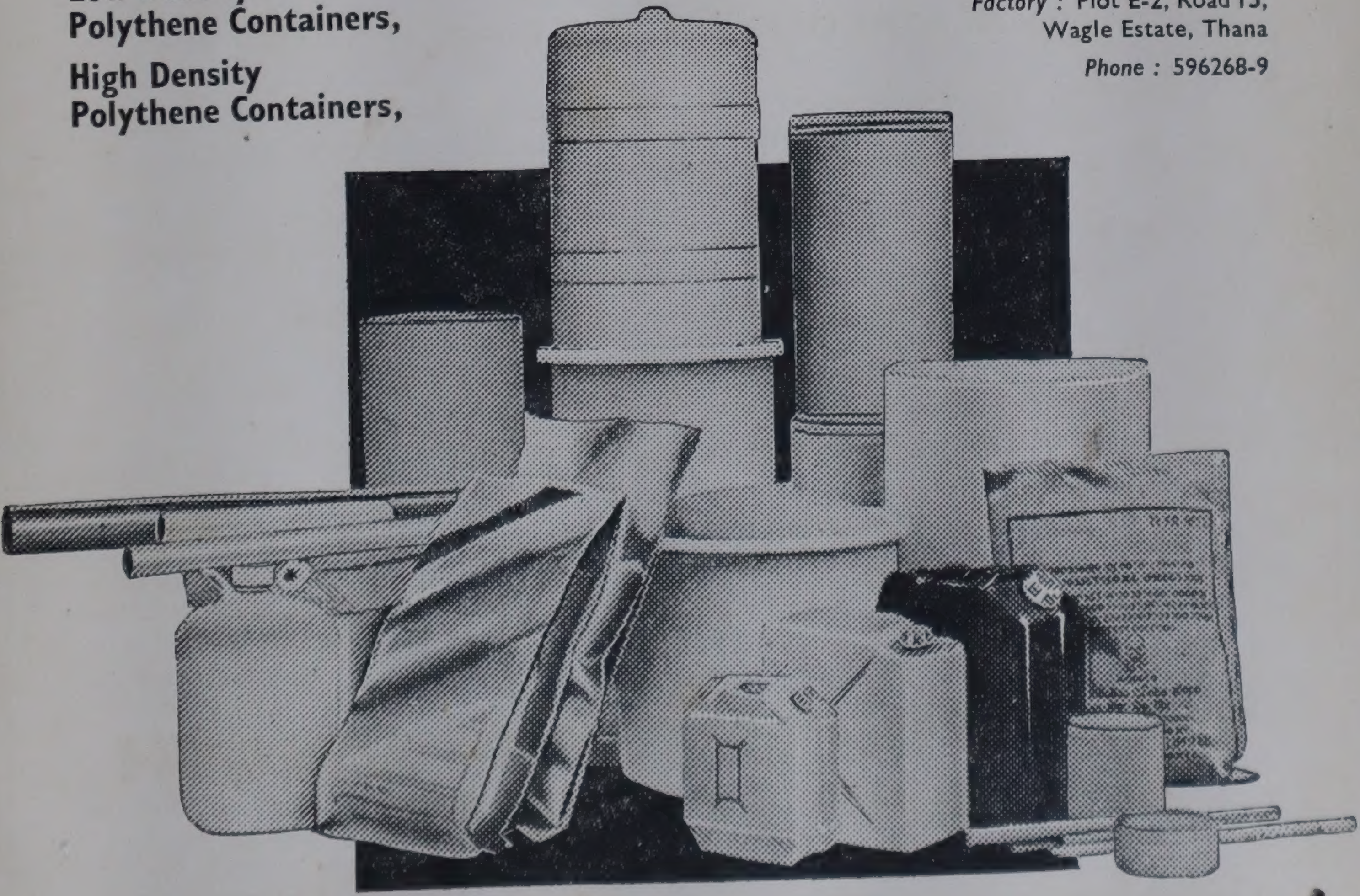

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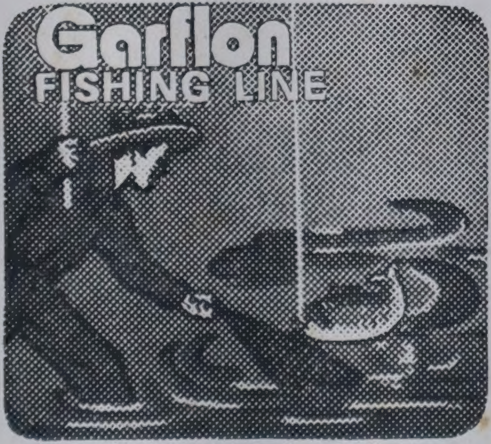
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